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A BIBLIOGRAPHY ON OIL SPILLS; 1980-1982

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Format

This bibliography contains over 1,500 references which have been compiled using a computer system. Authors and keywords are arranged alphabetically throughout this bibliography. Readers are advised to check for the particular keyword of interest, plus its plural and other forms of the word, eg., its verb, adjective, etc. Compound names such as place names or those of biological species, will be indexed in this bibliography as separate words.

ABARENICULA-PACIFICA
0036 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATION ON SEDIMENT WORKING RATES OF ABARENICOLA-PACIFICA $ BATTELLE PACIFIC NW LAB MARINE RES LAB SEQUIM WA MARINE ENVIRONMENTAL RESEARCH 3 (4) P. 307-313 1980

0037 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE OIL IN SEDIMENT ON ABARENICULA-PACIFICA IN LABORATORY AND FIELD EXPERIMENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1980

ABARNOU,A
0318 GRIZEL,H., MICHEL,P., ABARNOU,A., GUEGAN,B. EFFECTS OF AMOCO-CADIZ OIL SPILL ON OYSTER CULTURES $ INST SCI TECH PECHES MARITIMES LA TRINITE/MER FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOG INT P. 715-26 1981

ABBISS,T.P
0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., ROWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD COUNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

ABILITIES
0161 CARD,J.C., COJEEN,H.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-713/3 174P. 1979

ABILITY
0174 CHURSHUKOV,E.S., MAIKO,L.P., ZAKHAROVA,N.N., KUZNETSOV,V.A. EVALUATION OF WATER-DISPLACING ABILITY OF OILS BY ELECTROCHEMICAL METHOD $ CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (9-10) P. 766-767 1979

ABOBA,B
0059 BECK,R., ABOBA,B., MILLER,D., KAKLINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

ABRA-ALBA
0876 DAUVIN,J.C. IMPACT OF AMOCO-CADIZ OIL SPILL ON THE MUDDY FINE SAND ABRA-ALBA AND MELINNA-PALMATA COMMUNITY FROM THE BAY OF MORLAIX $ STN BIOL ROSCOFF FRANCE ESTUARINE COASTAL AND SHELF SCIENCE 14 (5) P. 517-531 1982

ABRAMZON;A.A
0001 ABRAMZON;A.A., MURASHEV,I.A., SEMANOV,G.N. REQUIREMENTS FOR SURFACE-ACTIVE AGENTS (SAAS) USED AS PETROLEUM COLLECTORS $ LENSOVET TECHNOL INST LENINGRAD USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (6) P. 979-982 1980

ABSORBABILITY

0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-6 1981

0814 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP II THE EVALUATION OF OIL ABSORBABILITY OF NATURAL SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 29-35 1981

ABSORBANTS

0949 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL: DISPERSANTS ABSORBANTS BOOMS AND SKIMMERS 1978-JANUARY 1982 (CITATIONS FROM THE INFORMATION RETRIEVAL LTD DATA BASE) $ PB82-859125 78P. 1982

ABSORBENT

0326 HALL,R.T., HAIGH,D.H., MARTIN,R.G., WAMPFLER,D.J. USE OF ABSORBENT (IMBIBING) POLYMERS IN SPILL CONTROL $ DOWN CHEM CO MIDLAND MICH 13TH LOSS PREV SYMP P. 170-174 1980

ACCIDENT

0075 BERTRAND,A.R.V. MAJOR OFFSHORE OIL SPILL ACCIDENTS AND THE TANKER ACCIDENT DATA BANK (1955-1979) OF THE INSTITUT FRANCAIS DU PETROLE $ INST FR DU PET REV INST FR PET 24 (3) P. 483-541 1979

0198 CURTES,A., ALTAMIRANO,J. CHEMICAL EVOLUTION OF HYDROCARBONS IN WEATHERED BEACH OIL SAMPLES AFTER THE IXTOC-1 ACCIDENT $ INST MEXICANO PETR DIV ANALYT MEXICO CITY MEXICO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 10P. 1980

0375 INMAN,D.W., HENRY,J., MELVILLE,P. SIMULATION AND QUEUING MODELS TO ASSIST PLANNING OF ACCIDENT AND EMERGENCY SERVICES $ NE THAMES REGIONAL HLTH AUTHORITY CAVELL ST LONDON ENGL IN: GREMY,F., DEGOULET,P., BARBER,B., SALAMUN,R. MEDICAL INFORMATICS EUROPE 81 11 P. 266-274 1981

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1981

ACCIDENT

0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF CORDELLE GEORGIA EXPLOSION AND FIRE CORDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

0582 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1979 $ PB-81-108615 122P. 1980

0583 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1980 $ PB-81-156978 52P. 1980

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND EI-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V POLA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT THE PIPELINES OF PUERTO-RICO INC PETROLEUM PRODUCTS PIPELINE RUPTURE AND FIRE BAYAMON PUERTO-RICO JANUARY 30 1980 $ PB-81-204851 69P. 1980

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

0591 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSION 215 THIRD STREET SE WASHINGTON, D.C. OCTOBER 30 1979 $ PB-80-213457 33P. 1980

ACCIDENT

0592 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSIONS AT ANNANDALE VIRGINIA MARCH 24 1972 $ PB-214-328/7 42P. 1972

0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

0595 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT PENNSYLVANIA GAS AND WATER COMPANY NATURAL-GAS EXPLOSIONS WILLIAMSPORT PENNSYLVANIA JANUARY 25 1977 $ PB-277-052/7ST 26P. 1977

0614 OFFICE OF RADIATION PROGRAMS WASHINGTON, D.C. THE CONSEQUENCES AND FREQUENCY OF SELECTED MAN ORIENTED ACCIDENT EVENTS $ PB-80-211303 233P. 1980

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

ACCIDENTAL

0202 CRANE,G.D. DEVELOPMENT OF THE DEPARTMENT OF THE ENVIRONMENT'S POLLUTION PAPER NO 8 (ON ACCIDENTAL OIL POLLUTION OF THE SEA) $ DEP OF THE ENVIRON AND TRANSP MAR ENVIRON AND OIL FACIL PROC OF A CONF LONDON ENGL P. 49-63 1978

0666 RENOUX,A., BUTOR,J.F., JOUAN,M. EFFECT OF ACCIDENTAL POLLUTION OF THE OCEAN ON MARINE AEROSOL $ FAC SCI CRETEIL UNIV PARIS VAL DE MARNE CRETEIL FRANCE J ENVIRON SCI HEALTH PART A VOL A16 (4) P. 397-404 1981

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

0843 BERTRAND,A.R.V. INSTITUT FRANCAIS DU PETROLE DATABANK ON ACCIDENTAL OIL SPILLS AT SEA (1955-1980) NEW RESULTS $ (LA BANQUE DE DONNEES DE L'INSTITUT FRANCAIS DU PETROLE SUR LES DEVERSEMENTS ACCIDENTELS DE PETROLE EN MER (1955-1980) - NOUVEAUX RESULTATS) INST FR DU PET RUEIL-MALMAISON REV INST FR PET 36 (2) P. 229-239 1981

ACCIDENTAL

0852 BUGDANOV,Y.M., BORISOV,V.V., GROKHOTOV,V.A., MAZUROV,V.A. PREVENTION OF ACCIDENTAL BLOW-OUTS OF A FUEL IN UNDERGROUND RESERVOIRS $ VSES NAUCHNO-ISSLED INST ISPOL'Z GAZA NAR KHOZ MOSCOW USSR (SU) TRANSP KHRANENIE NEFTI NEFTEPROD (2) P. 20-4 1982

ACCIDENTS

0075 BERTRAND,A.R.V. MAJOR OFFSHORE OIL SPILL ACCIDENTS AND THE TANKER ACCIDENT DATA BANK (1955-1979) OF THE INSTITUT FRANCAIS DU PETROLE $ INST FR DU PET REV INST FR PET 24 (3) P. 483-541 1979

0364 HOUGHTON,W.J. LICENSING TOPICAL REPORT: APPLICATION OF PROBABILISTIC RISK ASSESSMENT IN THE SELECTION OF DESIGN BASIS ACCIDENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 50P. 1980

0880 EDDIE,A.G.F. RISK ANALYSIS OF BERTHING ACCIDENTS INVOLVING LARGE SHIPS $ CONNELL EDDIE AND ASSOC MELBOURNE AUSTRALIA IN: PERMANENT INT ASSOC NAV CONGRESSES P. I-9 1981

0917 KUUMAN,C., DEBRUIN,D., SMIT,J.A. TRAFFIC ACCIDENTS AND SAFETY MEASURES ON DUTCH WATERWAYS $ PUBL WORKS DEPT DELTA DEPT DIV ENGN BERGEN OP ZOOM NETHERLANDS IN: PERMANENT INT ASSOC NAV CONGRESSES 11 P. 313-333 1981

0989 SUCH,H. BEING SMART BEFORE THE DAMAGE IS DONE EXPERIENCES WITH PIPELINE ACCIDENTS IN EUROPE $ UMSCHAU DAS WISSENSCHAFTSMAGAZIN 82 (4) 119P. 1982

ACCLIMATED

0244 ENGELHARDT,F.R., WONG,M.P., DUEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

ACCOMMODATED

0384 JOHNS,D.M., PECHENIK,J.A. INFLUENCE OF THE WATER-ACCOMMODATED FRACTION OF NO.-2-FUEL-OIL ON ENERGETICS OF 'CANCER-IRRORATUS' LARVAE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT, RI PB-81-185720 10P. 1981

0438 LEE,W.Y., MORRIS,A., BOATWRIGHT,D. MEXICAN OIL SPILL A TOXICITY STUDY OF OIL ACCOMMODATED IN SEAWATER ON MARINE-INVERTEBRATES $ UNIV TEXAS INST MARINE SCI PORT ARANSAS MARINE LAB PORT ARANSAS TX MARINE POLLUTION BULLETIN 11 (8) P. 231-234 1980

0868 CARON,D.A., SIEBURTH,J.M.C.N. RESPONSE OF PELTRICHOUS-CILIATES IN FOULING COMMUNITIES TO SEAWATER ACCOMMODATED HYDROCARBONS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-181850 23P. 1982

ACCUMMODATED

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCUMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

ACCUMULATED

0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE COPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

ACCUMULATION

0519 MILAN,C.S., WHELAN,T. III ACCUMULATION OF PETROLEUM HYDROCARBONS IN A SALT-MARSH ECOSYSTEM EXPOSED TO STEADY STATE OIL INPUT $ LOUISIANA STATE UNIV BATON ROUGE PB-80-128853 26P. 1979

0774 TOTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CORDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

ACID-EXTRACTION

0110 BRITISH CARBONIZATION RESEARCH ASSOCIATION CHESTERFIELD ENGLAND PROCEEDINGS OF THE SYMPOSIUM ON TAR ACID-EXTRACTION 11 APRIL 1978 $ 59P. 1979

ACOUSTIC

0409 KOBLANSKI,J.N. OIL SPILL REMOVAL IN THE MARINE ENVIRONMENT UTILIZING ACOUSTIC ENERGY $ OCEAN ECOL LTD VANCOUVER BC CANADA JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (3) P. 92-96 1981

0410 KOBLANSKI,J.N. OIL SPILL REMOVAL IN THE MARINE ENVIRONMENT UTILIZING ACOUSTIC ENERGY $ JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 19 (1) 36P. 1980

0739 SOOM,A., MARTIN,H.R., LEA,J.A. PASSIVE ACOUSTIC DETECTION OF GAS LEAKS IN BURIED PIPES $ STATE UNIV OF NY BUFFALO ASME PAP N 80-WA/NC-17 FOR MEET 10P. 1980

0981 SLIWINSKI,A. POSSIBILITIES OF THE USE OF ACOUSTIC MEASUREMENT METHODS IN THE EXAMINATION OF OIL SPILLS ON THE SEA $ POL (PL) STUD WATER OCEANOL 35 P. 159-80 1981

ACOUSTICAL
0574 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA DAMAGE DETECTION SYSTEM FOR LNG CARRIERS: AN ACOUSTICAL DAMAGE DETECTION SYSTEM FOR SAFER LNG CARRIERS $ PB-80-975240 1P.

ACT
0447 LEVENTHAL,F.D. THE BAY OF CAMPECHE OIL SPILL OBTAINING JURISDICTION OVER PETROLEOS-MEXICANOS UNDER THE FOREIGN SOVEREIGN IMMUNITIES ACT OF 1976 $ UNIV CALIF BERKELEY SCH LAW BERKELEY CA ECOLOGY LAW QUARTERLY 9 (2) P. 341-377 1981

0631 PAGE,I. A FRAMEWORK FOR UNREASONABLE RISK IN THE TOXIC SUBSTANCES CONTROL ACT (TSCA) $ CALTECH ENVIRONM QUAL LAB PASADENA CA ANNALS OF THE NEW YORK ACADEMY OF SCIENCES 363 P. 145-166 1981

ACTINIA-EQUINA
0961 ORMOND,R.F.G., CALDWELL,S. THE EFFECT OF OIL POLLUTION ON THE REPRODUCTION AND FEEDING BEHAVIOR OF THE SEA-ANEMONE ACTINIA-EQUINA $ UNIV YORK DEPT BIOL YORK N YORKSHIRE ENGLAND MARINE POLLUTION BULLETIN 13 (4) P. 118-122 1982

ACTIVITIES
0004 AHEARN,D.G., COOK,W.L., CROW,S.A. EFFECTS OF POLLUTANTS ON MICROBIAL ACTIVITIES IN ESTUARINE SURFACE FILMS $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-171183 28P. 1981

0747 STICKEL,L.F., DIETER,M.P. ECOLOGICAL AND PHYSIOLOGICAL/TOXICOLOGICAL EFFECTS OF PETROLEUM ON AQUATIC BIRDS A SUMMARY OF RESEARCH ACTIVITIES FY76 $ FISH AND WILDLIFE SERVICE LAUREL MD PB-80-127285 20P. 1979

0967 PEARCE,J. RESEARCH ACTIVITIES RELATED TO OIL POLLUTION INCIDENTS $ NATL MARINE FISH SERV NORTHEAST CENT SANDY HOOK LAB HIGHLANDS N.J. INT COUNC EXPLOR SEA COOP RES REP 0 (107) P. 1-51 1981

ACTIVITY
0207 CUMMINGS,B.A., GORDON,R.C. MICROBIOLOGICALLY MEDIATED MUTAGENIC ACTIVITY OF CRUDE-OIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-82-105131 302P. 1981

0394 KARELL,M. RELIABILITY AND SAFETY ANALYSIS OF ACTIVITY MEASURING SYSTEMS 1 RELIABILITY ANALYSIS OF THE STACK MONITORING SYSTEM 1317A $ AKTIEBOLAGET ATOMENERGI STUDSVIK (SWEDEN) STUDSVIK-IP-78-3 26P. 1978

0677 ROGERSON,A., BERGER,J. THE EFFECTS OF COLD TEMPERATURES AND CRUDE-OIL ON THE ABUNDANCE AND ACTIVITY OF PROTOZOA IN A GARDEN SOIL $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CANADIAN JOURNAL OF ZOOLOGY 59 (8) P. 1554-1560 1981

0909 HENSON,J.M., HAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

ACTIVITY
1024 BUNCH,J.N., HARLAND,R.C., LALIBERTE,J. MICROBIOLOGY 1 EFFECTS OF OIL ON BACTERIAL ACTIVITY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-5 OTTAWA ONTARIO 1981

ACUFF,J.T
0611 UBERHOLTZER,G.R., ACUFF,J.T. TARGETING SPILL PREVENTION AND CONTROL TRAINING TO THE RESPONSIBLE INDIVIDUAL $ NATL SPILL CONTROL SCH CORPUS CHRISTI TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 201-203 1979

0612 UBERHOLTZER,G.R., ACUFF,J.T. NATIONAL SPILL CONTROL SCHOOL A PILOT PROGRAM IN ENVIRONMENTAL TRAINING FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 52P. 1980

ACUTE
0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

0283 GABOR,I., GRIFFITH,T.K. ASSESSMENT OF COMMUNITY VULNERABILITY TO ACUTE HAZARDOUS MATERIALS INCIDENTS $ OHIO STATE UNIV COLUMBUS J HAZARD MATER 3 (4) P. 323-333 1980

0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MURITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0361 HULLISTER,T.A., WARD,G.S., PARRISH,P.R. ACUTE TOXICITY OF A #6-FUEL-OIL TO MARINE ORGANISMS $ EG AND G BIONOM MARINE RES LAB PENSACOLA FL BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 24 (5) P. 656-661 1980

0623 URDZIK,C.J., GARDFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

ACUTE
1018 FOY,M.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-3 OTTAWA ONTARIO 1982

ACW-400
0303 GILL,S.D., RYAN,W. ASSESSMENT OF THE ACW-400 OIL SKIMMER BY THE CANADIAN COAST GUARD FOR OIL SPILL COUNTERMEASURE OPERATIONS $ CAN COAST GUARD EMERG OTTAWA ONT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 497-499 1979

ADAMS,N
1099 ADAMS,N. WELL CONTROL PROBLEMS AND SOLUTIONS $ PETROLEUM PUBLISHING COMPANY TULSA OKLAHOMA 1980

ADAMS,V.D
0219 DICKSON,J.G., ADAMS,V.D. EVALUATION OF MUTAGENICITY TESTING OF EXTRACTS FROM PROCESSED OIL-SHALE $ OFFICE OF WATER RESEARCH AND TECHNOLOGY WASHINGTON, D.C. PB-80-203458 52P. 1980

ADAPTATION
0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., CUSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

0347 HERMANN,M., CHAUDE,O., WEILL,N., BEDOUELLE,H., HOFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

ADAPTED
0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

ADDITIONS
0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN MERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

0962 OVIATT,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

ADDITIVES

0615 OGAWA,T. THE IDENTIFICATION METHOD FOR LUBRICATING OIL ADDITIVES IN BILGE BY THE INFRARED-SPECTROSCOPY $ KAIJO HOAN UNIV JAPAN NIPPON HAKUYO KIKAN GAKKAISHI 16 (2) P. 115-20 1981

0827 ZAKUPRA,V.A., KOZAK,V.A., VYKHRESTYUK,N.I., TKACHENKO,D.A. SEPARATION OF PETROLEUM CUTS AND LUBE OILS WITH DETERGENT ADDITIVES BY MEANS OF 2 STAGE CONTINUOUS LIQUID-CHROMATOGRAPHY $ ALL UNION PETR REFINING AND PETROCHEM IND RES AND DESIGN INST MOSCOW CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (11-1) P. 846-850 1979

ADLARD,E.R

0002 ADLARD,E.R. OIL POLLUTION AT SEA $ INST PETR IP PANEL ST G 7,61 NEW CAVENDISH ST LONDON ENGL CHEMISTRY IN BRITAIN 17 (9) P. 404 1981

ADMINISTRATION

0540 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. REPORT TO THE CONGRESS ON OCEAN POLLUTION AND OFFSHORE DEVELOPMENT OCTOBER 1977 THROUGH SEPTEMBER 1978 $ PB-81-118333 94P. 1980

0541 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-130008 781P. 1978

0542 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME II RECEPTORS BIRDS $ PB-80-130016 964P. 1978

0543 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME III RECEPTORS BIRDS $ PB-80-130024 912P. 1978

0544 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130032 734P. 1978

0545 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME V RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130040 377P. 1978

0546 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VI RECEPTORS MICROBIOLOGY $ PB-80-130057 502P. 1978

0547 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VII EFFECTS $ PB-80-130065 761P. 1978

0548 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VIII CONTAINMENT BASELINES $ PB-80-130073 628P. 1978

ADMINISTRATION
0549 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME X TRANSPORT $ PB-80-130099 933P. 1978

0550 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XI HAZARDS $ PB-80-130107 693P. 1978

0551 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XII HAZARDS $ PB-80-130115 626P. 1978

0938 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO HAZARDOUS MATERIALS RESPONSE PROJECT: PROGRAM PLAN $ PB82-193046 33P. 1981

ADSORBENTS
0411 KONDO,G. MATERIALS FOR REMOVAL OF WASTE OIL 2 OIL ADSORBENTS $ KOBE SHOSEN UNIV KOBE JAPAN KANKYO GIJUTSU 9 (6) P. 446-51 1980

ADVANCED
0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MULHOLL,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

ADVANCEMENT
0025 ANON. ENERGY IN THE BALANCE SOME PAPERS FROM BA79: PAPERS GIVEN AT THE ANNUAL MEETING OF THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE 1979 $ BR ASSOC FOR THE ADV OF SCI ENERGY IN THE BALANCE SOME PAP FROM BA79 234P. 1979

ADVERSE
0461 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX D ADVERSE ENVIRONMENTAL EFFECTS $ AD-A091-406/9 96P. 1973

ADVISORY
0539 NATIONAL MATERIALS ADVISORY BOARD (NRC) WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

AERATION
0393 KARELIN,Y.A., ZHUKOV,D.D., SAIDAMINOV,I.A. BIOCHEMICAL TREATMENT OF OIL CONTAINING WASTEWATER IN AERATION TANKS $ CHEM TECHNOL FUELS OILS 15 (7-8) P. 540-544 1979

AERIAL
1033 MACKAY,D., KRISTMANSON,D.D., PICOT,J.J.C., SMEDLEY,J.B. THEORETICAL ASSESSMENT AND DESIGN STUDY OF THE AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-6 OTTAWA ONTARIO 1980

1078 ANONYMOUS AERIAL OBSERVATION OF OIL AT SEA $ INTERNATIONAL TANKER OWNERS POLLUTION FEDERATION LTD HOUNDSDITCH LONDON 1981

AERIAL

1089 ANONYMOUS AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ INTERNATIONAL TANKER OWNERS POLLUTION FEDERATION LTD HOUNDSDITCH LONDON 1982

AERIALLY

1091 GILL,S.D. THE SUFFIELD FIELD TRIAL OF AERIALLY APPLIED OIL SPILL DISPERSANTS $ PETROLEUM ASSOCIATION FOR CONSERVATION OF THE CANADIAN ENVIRONMENT OTTAWA CANADA 1981

1092 ASLIN,J., HOSSAIN,K., MACKAY,D. EFFECTIVENESS OF AERIALLY APPLIED DISPERSANTS $ DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED CHEMISTRY TORONTO CANADA 1981

AEROSOL

0666 RENOUX,A., BUTOR,J.F., JOUAN,M. EFFECT OF ACCIDENTAL POLLUTION OF THE OCEAN ON MARINE AEROSOL $ FAC SCI CRETEIL UNIV PARIS VAL DE MARNE CRETEIL FRANCE J ENVIRON SCI HEALTH PART A VOL A16 (4) P. 397-404 1981

AGED

0466 LITTLE,R.C. CHEMICAL DEMULSIFICATION OF AGED CRUDE-OIL EMULSIONS $ NAV RES LAB WASHINGTON, D.C. ENVIRON SCI TECHNOL 15 (10) P. 1184-1190 1981

1032 TWARDUS,E.M. A STUDY TO EVALUATE THE COMBUSTIBILITY AND OTHER PHYSICAL AND CHEMICAL PROPERTIES OF AGED OILS AND EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-5 OTTAWA ONTARIO 1980

AGEING

0683 ROUSSEL,J.C., GAUTIER,R. AGEING OF ARABIAN LIGHT CRUDE-OIL IN SEAWATER PHYSICOCHEMICAL CHARACTERS DURING SIX MONTHS $ INST FRANCAIS PETROLE RUEIL MALMAISON FRANCE AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 135-47 1979

AGENCY

0245 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. EMERGENCY SPILLS RESEARCH STRATEGY 1980-1984 $ PB-81-206229 25P. 1980

0246 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. ENVIRONMENTAL IMPACT GUIDELINES FOR NEW SOURCE PETROLEUM REFINERIES $ PB-82-123514 128P. 1981

0247 ENVIRONMENTAL PROTECTION AGENCY SEATTLE WA ALASKA PETROCHEMICAL COMPANY REFINERY AND PETROCHEMICAL FACILITY VALDEZ ALASKA $ PB-81-117038 349P. 1980

0248 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. A SMALL OIL SPILL AT WEST FALMOUTH $ PB-80-170111 33P. 1979

0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

1073 ENVIRONMENTAL PROTECTION AGENCY PROJECT INFORMATION SHEETS FOR OIL SPILLS RESEARCH $ EDISON NJ 1980

AGENCY'S

0734 SMITH,G.W., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-163743 365P. 1981

1103 SMITH,G.F., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1981

AGENT

0824 WU,R.S.S. DIFFERENCES IN THE TOXICITIES OF AN OIL DISPERSANT AND A SURFACE ACTIVE AGENT TO SOME MARINE ANIMALS AND THEIR IMPLICATIONS IN THE CHOICE OF SPECIES IN TOXICITY TESTING $ FISHERIES RES STN ABERDEEN HONG KONG MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 157-163 1981

AGENTS

0001 ABRAMZON,A.A., MURASHEV,I.A., SEMANOV,G.N. REQUIREMENTS FOR SURFACE-ACTIVE AGENTS (SAAS) USED AS PETROLEUM COLLECTORS $ LENSOVET TECHNOL INST LENINGRAD USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (6) P. 979-982 1980

0203 CROUUETTE,J., GATELLIER,C. USE OF BEACH CLEANING- AGENTS AND THEIR EFFECTS ON OIL SPILLS $ CEDRE BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACID HYDROCARBURES ACTES COLLOQ INT P. 821-36 1979

0216 DEWLING,R.T., MCCARTHY,L.T. CHEMICAL AGENTS FOR OIL SPILL CONTROL $ EPA NEW YORK USA ADV ENVIRON SCI ENG 4 P. 146-60 1981

0344 HELLMANN,H., MUELLER,D. TESTING THE TECHNICAL EFFICIENCY AND THE TOXICITY OF CHEMICAL AGENTS FOR DISPERSION OF CRUDE-OIL ON WATER SURFACES $ BUNDESANST GEWAESSERKD.KOBLENZ FED REP GER DTSCH GEWAESSERKD MITT 25 (2) P. 56-9 1981

0958 NESTEROVA,M.P., ANUFRIEVA,N.M., LEVINA,R.M. INVESTIGATION OF CHEMICAL AGENTS CONTAINING THE SPREAD OF OIL ON A WATER SURFACE $ WATER RESOUR 8 (1) P. 85-91 1981

1085 WOODWARD-CLYDE CONSULTANTS MANUAL OF PRACTICE USE OF CHEMICAL TREATING AGENTS IN OIL SPILL CONTROL $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

AHEARN,D.G

0003 AHEARN,D.G., CROW,S.A. YEASTS FROM THE NORTH SEA AND AMOCO-CADIZ OIL $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-110496 5P. 1980

0004 AHEARN,D.G., COOK,W.L., CROW,S.A. EFFECTS OF POLLUTANTS ON MICROBIAL ACTIVITIES IN ESTUARINE SURFACE FILMS $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-171183 28P. 1981

0204 CROW,S.A., AHEARN,D.G. DEGRADATION OF OIL BY YEAST AND FILAMENTOUS FUNGI IN ARCTIC ENVIRONMENTS $ GEORGIA STATE UNIV ATLANTA AD-A078-892/7 13P. 1979

AHEL,M

0005 AHEL,M., PICER,M. AN OIL SPILL AT SEA ORIGIN AND FATE $ CENT ISTRAZIVANJE MORA INST "RUDER BOSKOVIC" ZAGREB-ROVINJ YUGLOSLAVIA ACTA ADRIAT 21 (1) P. 237-48 1980

AHERN,J.F

0799 VORBACH,J.E., AHERN,J.F. INTERNATIONALIZATION OF SUPERFUND $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 17-21 1979

AHERN,T.P

0786 VANDERMEULEN,J.H., LONG,B.F.N., AHERN,T.P. BIOAVAILABILITY OF STRANDED AMOCO-CADIZ OIL AS A FUNCTION OF ENVIRONMENTAL SELF-CLEANING: APRIL 1978-JANUARY 1979 $ MAR ECOL LAB BEDFORD INST OCEANOGR DARTMOUTH NS AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 585-97 1979

AHLERT,R.C

0625 OSAMOR,C.A., AHLERT,R.C. OIL SLICK DISPERSAL MECHANICS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-105560 238P. 1981

AHO,H

0006 AHO,H., GUERIN,M. OILY DEBRIS DISPOSAL PROBLEM IN MAINE $ DEP OF ENVIRON PROT AUGUSTA ME ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 36-61 1980

AHSANULLAH,M

0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

AIALIK

0255 FEDER,H.M., PAUL,A.J., MCDONALD,J. A PRELIMINARY SURVEY OF THE BENTHOS OF RESURRECTION-BAY AND AIALIK ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-182991 57P. 1979

AID

0630 PAGE,D.G. COMPUTER-MODEL WILL AID OIL SPILL CLEANUP EFFORTS $ MIT SEA GRANT COLL PROGRAM CAMBRIDGE MA SEA TECHNOLOGY 21 (9) P. 10-12 1980

0775 TRACY,K.D., ZITRIDES,T.G. MUTANT BACTERIA AID EXXON WASTE SYSTEM $ ENVIRON DYN INC GREENVILLE SC HYDROCARBON PROCESS 59 (10) P. 95-98 1979

AIDS

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KUSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMURRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

AIR

0119 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA EXECUTIVE SUMMARY $ PB-82-106352 45P. 1980

0120 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA TECHNICAL ANALYSIS $ PB-82-106360 675P. 1980

0121 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA SUPPLEMENT $ PB-82-106378 90P. 1980

0427 LAU,Y.L., ENGEL,P. CONTROL OF OIL SLICKS IN FLOWING WATER USING AIR BUBBLE BARRIERS $ NATL WATER RES INST DIV HYDRAUL RES BURLINGTON ONTARIO CANADA CANADIAN JOURNAL OF CIVIL ENGINEERING 7 (2) P. 397-405 1980

1139 ANONYMOUS AIR BUBBLE DIVERTER $ CANADIAN PETROLEUM ASSOCIATION CALGARY ALBERTA 1980

AIR-JET

0184 COHEN,S.H., LINDENMUTH,W.T., FARLOW,J.S. DEVELOPMENT AND TESTS OF AN AIR-JET OIL-BOOM $ HYDRONAUT INC LAUREL MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 483-487 1979

AIRBORNE

0042 BACKLUND,L. AIRBORNE OIL SPILL SURVEILLANCE SYSTEMS IN SWEDEN $ SWED SPACE CORP SOLNA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 305-311 1979

0359 HOGE,F.E., SWIFT,R.N. OIL FILM THICKNESS MEASUREMENT USING AIRBORNE LASER INDUCED WATER RAMAN BACKSCATTER $ NASA WALLOPS FLIGHT CENT WALLOPS ISL VA APPL OPT 19 (19) P. 3269-3281 1980

1127 O'NEIL,R.A., HOGE,F.E., BRISTOW,M.P.F. THE CURRENT STATUS OF AIRBORNE LASER FLUOROSENSING $ ENVIRONMENT CANADA ANN ARBOR MICHIGAN 1981

AIRCRAFT

0196 CORMACK,D., PARKER,H. USE OF AIRCRAFT FOR THE CLEARANCE OF OIL SPILLS AT SEA $ WARREN SPRING LAB STEVENAGE HERTFORDSHIRE ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 469-473 1979

AIREYE

0811 WHITE,J.R., SCHMIDT,R.E., PLAGE,W.E. AIREYE REMOTE-SENSING SYSTEM FOR OIL SPILL SURVEILLANCE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 301-304 1979

ALASKA

0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PDAC /9: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

0136 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF NORTHEAST GULF OF ALASKA INTERIM SYNTHESIS REPORT $ PB-81-177863 298P. 1980

0247 ENVIRONMENTAL PROTECTION AGENCY SEATTLE WA ALASKA PETROCHEMICAL COMPANY REFINERY AND PETROCHEMICAL FACILITY VALDEZ ALASKA $ PB-81-117038 349P. 1980

0255 FEDER,H.M., PAUL,A.J., MCDONALD,J. A PRELIMINARY SURVEY OF THE BENTHOS OF RESURRECTION-BAY AND AIALIK ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-182991 57P. 1979

0286 GARRETT,J.M. ARCTIC ALASKA AND ICEBREAKING: AN ASSESSMENT OF FUTURE REQUIREMENTS FOR THE UNITED STATES COAST GUARD $ NAVAL POSTGRADUATE SCHOOL MONTEREY CA AD-A100-990/1 189P. 1981

0351 HILLMAN,S.D.J. STORAGE AND DISPOSAL OF OILY WASTE IN ALASKA $ SOHIO PET CO ANCHORAGE ALASKA ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 88-97 1978

0387 JOHNSON,L.A., COLLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

0402 KEITH,V.F. REAL TIME SIMULATION OF OIL TANKER OPERATIONS IN VALDEZ ALASKA $ ECO INC ANNAPOLIS MD IN: SOC COMP SIMULAT PROCEEDINGS OF THE 1980 SUMMER COMPUTER SIMULATION CONFERENCE P. 405-410 1980

0435 LEE,W.H. BEHAVIOR OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT PRINCE-WILLIAM-SOUND ALASKA $ LOS ALAMOS NATL LAB LOS ALAMOS NM TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY 38 P. 101-102 1981

0608 NUMMEDAL,D., RUBY,C.H. SPILLED OIL RETENTION POTENTIAL BEAUFURT-SEA COAST OF ALASKA $ LOUISIANA STATE UNIV MED CTR DEPT GEOL NEW ORLEANS LA IN: NORWEGIAN INST TECHNOL PDAC 79: THE FIFTH INTERNATIONAL CONF ON PORT AND ENG 3 P. 247-253 19

ALASKA

0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCOLES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LMd HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

0905 HANSEN,D.J. THE RELATIVE SENSITIVITY OF SEA BIRD POPULATIONS IN ALASKA USA TO OIL SPILLS $ ALASKA OCS OFFICE BUREAU LAND MANAGEMENT ANCHORAGE ALASKA PROCEEDINGS OF THE 23RD ALASKA SCIENCE MEETING FAIRBANKS ALASKA USA 32 (0) P. 96-97 1981

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

0985 SPARROW,E.B. LONG-TERM RESPONSE OF SOIL MICRO-ORGANISMS TO CRUDE-OIL SPILLS ON PERMA-FROST TERRAIN IN INTERIOR ALASKA USA $ INST OF WATER RESOURCES UNIV OF ALASKA FAIRBANKS ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 50-51 1981

ALASKAN

0125 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 9 BIOLOGICAL STUDIES $ PB-82-117474 675P. 1981

0126 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 10 BIOLOGICAL STUDIES $ PB-82-124975 790P. 1981

0127 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 11 BIOLOGICAL STUDIES $ PB-82-124983 675P. 1981

0136 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF NORTHEAST GULF OF ALASKA INTERIM SYNTHESIS REPORT $ PB-81-177883 298P. 1980

0137 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-186810 774P. 1979

ALASKAN

0138 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME III RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186836 643P. 1979

0139 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF THE YEAR ENDING MARCH 1979 VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186844 669P. 1979

0140 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME V RECEPTORS MICROBIOLOGY CONTAMINANT BASELINES $ PB-80-186851 703P. 1979

0141 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VII TRANSPORT $ PB-80-186877 569P. 1979

0142 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VIII TRANSPORT $ PB-80-186885 592P. 1979

0143 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME IX HAZARDS $ PB-80-186893 686P. 1979

0144 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME X HAZARDS DATA MANAGEMENT $ PB-80-186901 522P. 1979

0145 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF EXECUTIVE SUMMARY APRIL 1978-MARCH 1979 $ PB-80-186919 112P. 1979

0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

0147 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME II: RECEPTORS MICROBIOLOGY ECOLOGICAL PROCESSES $ PB-81-196271 521P. 1980

0148 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME III: EFFECTS AND CONTAMINANT BASELINES $ PB-81-196289 359P. 1980

ALASKAN

0541 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-130006 781P. 1978

0542 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME II RECEPTORS BIRDS $ PB-80-130015 964P. 1978

0543 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME III RECEPTORS BIRDS $ PB-80-130024 912P. 1978

0544 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130032 734P. 1978

0545 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME V RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130040 377P. 1978

0546 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VI RECEPTORS MICROBIOLOGY $ PB-80-130057 502P. 1978

0547 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VII EFFECTS $ PB-80-130065 761P. 1978

0548 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VIII CONTAINMENT BASELINES $ PB-80-130073 628P. 1978

0549 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME X TRANSPORT $ PB-80-130099 933P. 1978

0550 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XI HAZARDS $ PB-80-130107 693P. 1978

0551 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XII HAZARDS $ PB-80-130115 626P. 1978

0568 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA POLLUTION FROM ALASKAN OIL AND GAS OPERATIONS JANUARY 1974-MAY 1981 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB-81-865768 56P. 1981

0702 SCHULTZ,L.A., MARSH,G.D. OFFSHORE AND COASTAL ALASKAN OIL SPILL SCENARIOS $ ARCTEC INC COLUMBIA MD ASME PAP N 80-PET-40 FOR MEET 13P. 1980

0704 SCIENCE APPLICATIONS INC BOULDER CO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF LOWER COOK INLET INTERIM SYNTHESIS REPORT $ PB-80-130735 252P. 1979

ALASKAN
0715 SHAW,D.G., CLEMENT,L.E., MCINTOSH,D.J. SOME EFFECTS OF PETROLEUM ON NEARSHORE ALASKAN MARINE ORGANISMS $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-81-159147 93P. 1981

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

0927 MALINS,D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 5 BIOLOGICAL STUDIES: ASSESSMENT OF AVAILABLE LITERATURE ON EFFECTS OF OIL POLLUTION ON BIOTA IN ARCTIC AND SUBARCTIC WATERS $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-171794 716P. 1979

0934 MILLER,S. ALASKAN USA BEAUFORT SEA COASTLINE SENSITIVITY ANALYSIS AND OIL SPILL RESPONSE MANUAL $ SOHIO ALASKAN PETROLEUM CO ANCHORAGE ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 173-175 1981

ALAYSE-DANET,A.M
0691 SAMAIN,J.F., MOAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE COZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

ALBAIGES,J
0007 ALBAIGES,J. FINGERPRINTING PETROLEUM POLLUTANTS IN THE MEDITERRANEAN SEA $ CSIC INST QUIM ORGAN JORGE GIRONA SALGADO BARCELONA SPAIN IN: ALBAIGES,J. ANALYTICAL TECHNIQUES IN ENVIRONMENTAL CHEMISTRY 3 P. 69-81 1980

0008 ALBAIGES,J., CUBERES,M.R. ON THE DEGRADATION OF PETROLEUM RESIDUES IN THE MARINE ENVIRONMENT $ INST BIO-ORG CHEM BARCELONA SPAIN CHEMOSPHERE 9 (9) P. 539-45 1980

ALBERS,P.H
0009 ALBERS,P.H. OIL DISPERSANTS AND WILDLIFE $ USFWS PATUXENT WILDLIFE RESEARCH CENTER LAUREL MD US FISH AND WILDLIFE SERVICE POLLUTION RESPONSE WORKSHOP ST PETERSBURG FLORIDA P. 67-72 1979

0010 ALBERS,P.H. TRANSFER OF CRUDE-OIL FROM CONTAMINATED WATER TO BIRD EGGS $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD ENVIRONMENTAL RESEARCH 22 (2) P. 307-314 1980

ALEXANDER,M.M
0632 PALM,D.J., ALEXANDER,M.M., PHILLIPS,D.M., LONGABUCCO,P. DAMAGE ASSESSMENT STUDIES FOLLOWING THE NEPCO-140 OIL SPILL ON THE ST.-LAWRENCE RIVER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-154594 175P. 1979

ALEXANDER,U

0054 BARSDATE,R.J., MILLER,M.C., ALEXANDER,U., VESTAL,J.R., HOBBIE,J.E. OIL SPILL EFFECTS (ON TUNDRA POND LIMNOLOGY) $ INST MAR SCI UNIV ALASKA FAIRBANKS AK US/IBP SYNTH SER 13 (LIMNOL TUNDRA PONDS: BARROW ALASKA) P. 388-406, 457-91 1980

ALGA

0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

0398 KARYDIS,M. THE TOXICITY OF CRUDE-OIL FOR THE MARINE ALGA SKELETONEMA-COSTATUM (GREVILLE) CLEVE IN RELATION TO NUTRIENT LIMITATION $ DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE HYDROBIOLOGIA 85 (2) P. 137-143 1981

ALGAE

0267 FLOCH,J.Y., DIOURIS,M. EFFECT OF AMOCO-CADIZ OIL SPILL ON PORTSALL (FRANCE) ALGAE: ECOLOGICAL SURVEY ON A VERY POLLUTED AREA $ INST ETUD MAR UNIV BRETAGNE OCCIDENT BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 381-91 1979

0268 FLOCH,J.Y., DIOURIS,M. INITIAL EFFECTS OF AMOCO-CADIZ OIL ON INTERTIDAL ALGAE $ BREST UNIV FR AMBIO 9 (6) P. 284-286 1980

0338 HARTMANN,B., STEINVALL,O., WIDEN,A. TESTS OF LASER INDUCED FLUORESCENCE FROM ALGAE AT SEA $ LASERINDUCERAD FLUORESCENS FRAAN ALGER RESULTAT FRAAN ETT BAATBUR RESEARCH INST OF NATIONAL DEFENCE STOCKHOLM (SWEDEN) 52P. 1979

ALIPHATIC

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.R., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

0881 ELLENTON,J.A., HALLETT,D.J. MUTAGENICITY AND CHEMICAL ANALYSIS OF ALIPHATIC AND AROMATIC FRACTIONS OF PRUDHOE-BAY CRUDE-OIL AND FUEL-OIL-NO-2 $ DEPT ENVIRONM DIV WILDLIFE TOXICOL NATL WILDLIFE RES CTR OTTAWA CANADA JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 959-972 1981

ALKYLPYRIDINES

0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

ALLEN,A.A
0011 ALLEN,A.A. CONTAINMENT AND RECOVERY TECHNIQUES FOR COLD WEATHER INLAND OIL SPILLS $ CROWLEY ENVIRON SERV CORP ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 345-353 1979

ALLSOPP,D
0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSOPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

ALONGI,D.M
0094 BOESCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALONGI,D.M., BOWEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 258P. 1981

ALTAMIRANO,J
0198 CORTES,A., ALTAMIRANO,J. CHEMICAL EVOLUTION OF HYDROCARBONS IN WEATHERED BEACH OIL SAMPLES AFTER THE IXTOC-1 ACCIDENT $ INST MEXICANO PETR DIV ANALYT MEXICO CITY MEXICO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 10P. 1980

ALTEKRUSE,E.B
0793 VERNBERG,E.J., ALTEKRUSE,E.B., BUTLER,S.D. PROCEEDINGS OF CONFERENCE ON OIL TANKER TRANSPORTATION: AN INTERDISCIPLINARY ANALYSIS OF NATIONAL AND INTERNATIONAL POLI $ SOUTH CAROLINA UNIV COLUMBIA AD-A080-085/4 250P. 1980

ALTERNATIVES
0414 KRISHNAN,R., HLAVIN,R. ALTERNATIVES FOR HAZARDOUS WASTE MANAGEMENT IN THE PETROLEUM REFINING INDUSTRY $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-113417 245P. 1979

0493 MARCUS,H.S., DENHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

ALVARADO,U.R
0012 ALVARADO,U.R., CHAFARIS,G., CHESTEK,J., CONRAD,J., FRIPPEL,G. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: TECHNICAL VOLUME EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 464P. 1980

0013 ALVARADO,U.R. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 68P. 1980

AMERICAN
0160 CAPUZZO,J.M. CRUDE-OIL EFFECTS TO DEVELOPMENTAL STAGES OF THE AMERICAN LOBSTER $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-82-117656 108P. 1981

AMERICAN

0337 HARRISON,E.A. THE BIOLOGICAL EFFECTS OF OIL SPILLS (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-806839 240P. 1980

0554 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA GROUND-WATER POLLUTION 1964-JANUARY 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB-82-800129 186P. 1981

0559 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1973-SEPTEMBER 1980 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB-81-802969 172P. 1981

0563 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA THE BIOLOGICAL EFFECTS OF OIL SPILLS 1975-MAY 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB-81-806218 284P. 1981

0645 PETRAKIS,L. (ED), WEISS,F.T. (ED) PETROLEUM IN THE MARINE ENVIRONMENT SYMPOSIUM AT THE MEETING OF THE AMERICAN CHEMICAL SOCIETY 176TH 1978 $ GULF RES AND DEV CO PITTSBURGH PA SYMP AT THE MEET OF THE ACS 371P. 1978

0942 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL-WATER SEPARATORS 1973-NOVEMBER 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB82-805680 189P. 1982

AMINE-CARBAMATE

0051 BANNISTER,W.W., RANCOURT,J.D., CURBY,W.A. AMINE-CARBAMATE GELLING-AGENTS FOR FACILITATING OIL SPILL RECOVERY AND CONTROL $ DEP CHEM UNIV LOWELL LOWELL MA MAR TECHNOL SO (EIGHTY) ANNU CONF MAR TECHNOL SOC 16TH P. 146-9 1980

AMINO-ACID

0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

AMOCO-CADIZ

0003 AHEARN,D.G., CROW,S.A. YEASTS FROM THE NORTH SEA AND AMOCO-CADIZ OIL $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-110496 5P. 1980

0014 AMOCO-CADIZ: FATES AND EFFECTS OF THE OIL SPILL $ (PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM CENTRE OCEANOLOGIQUE DE BRETAGNE BREST (FRANCE)) 881P. 1981

0032 ATLAS,R.M., BOEHM,P.D., CALDER,J.A. CHEMICAL AND BIOLOGICAL WEATHERING OF OIL FROM THE AMOCO-CADIZ SPILLAGE WITHIN THE LITTORAL ZONE $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY ESTUARINE COASTAL AND SHELF SCIENCE 12 (5) P. 589-608 1981

AMOCO-CADIZ

0033 ATLAS,R.M. FATE OF OIL FROM TWO MAJOR OIL SPILLS: ROLE OF MICROBIAL DEGRADATION IN REMOVING OIL FROM THE AMOCO-CADIZ AND IXTOC-I SPILLS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY ENVIRON INT 5 (1) P. 33-8 1981

0064 BELLIER,P., MASSART,G. AMOCO-CADIZ OIL-SPILL CLEANUP OPERATIONS AN OVERVIEW OF THE ORGANIZATION CONTROL AND EVALUATION OF THE CLEANUP TECHNIQUES EMPLOYED $ CEDRE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 141-146 1979

0074 BERTHOU,F., GOURMELON,Y., DREANO,Y., FRIOCOURT,M.P. APPLICATION OF GAS-CHROMATOGRAPHY ON GLASS-CAPILLARY COLUMNS TO THE ANALYSIS OF HYDROCARBON POLLUTANTS FROM THE AMOCO-CADIZ OIL-SPILL $ FAC MED BREST CNRS SERV BIOCHIM CHROMATOG LAB EQUIPE RECH BP BREST FRANCE JOURNAL OF CHROMATOGRAPHY 203 P. 279-292 1981

0076 BESLIER,A., BIRRIEN,J.L., CABIOCH,L., LARSONNEUR,L., LEBORGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

0092 BOCARD,C., RENAULT,P., CROQUETTE,J. CLEANING PRODUCTS USED IN OPERATIONS AFTER THE AMOCO-CADIZ DISASTER $ INST FR DU PET RUEIL MALMAISON FR PROC - OIL SPILL LOS ANGELES CALIF P. 163-167 1979

0097 BOUCHER,G. IMPACT OF AMOCO-CADIZ OIL-SPILL ON INTER-TIDAL AND SUBLITTORAL MEIOFAUNA $ CTR ETUD OCEANOG AND BIOL MARINE ROSCOFF ROSCOFF FRANCE MARINE POLLUTION BULLETIN 11 (4) P. 95-101 1980

0157 CABIOCH,L., DAUVIN,J.C., BERMUDEZ,J.M., BABIO,C.R. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SUBLITTORAL BENTHOS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 192-208 1980

0165 CARSIN,M.J.L. THE AMOCO-CADIZ OIL SPILL: BEHAVIOR OF HER HYDROCARBONS IN THE MARINE ENVIRONMENT $ ETABL PRINC SERV HYDROG OCEANOGR MAR PARIS FR ANN HYDROGR 754 P. 19-43 1980

0213 DENHARTOG,C., JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON AN EELGRASS COMMUNITY AT ROSCOFF (FRANCE) WITH SPECIAL REFERENCE TO THE MOBILE BENTHIC FAUNA $ CATHOLIC UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 182-191 1980

0224 DOWTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-URG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

0226 DOZOUVILLE,L., BERNE,S., GUNDLACH,E.R., HAYES,M.O. COASTAL MORPHOLOGY AND OIL SPILL POLLUTION THE AMOCO-CADIZ EXPERIENCE $ CTR OCEANOL BRETAGNE F-29273 BREST FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 557-571 1981

AMOCO-CADIZ

0227 D'OZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

0267 FLOCH,J.Y., DIOURIS,M. EFFECT OF AMOCO-CADIZ OIL SPILL ON PORTSALL (FRANCE) ALGAE: ECOLOGICAL SURVEY ON A VERY POLLUTED AREA $ INST ETUD MAR UNIV BRETAGNE OCCIDENT BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 381-91 1979

0268 FLOCH,J.Y., DIOURIS,M. INITIAL EFFECTS OF AMOCO-CADIZ OIL ON INTERTIDAL ALGAE $ BREST UNIV FR AMBIO 9 (6) P. 284-286 1980

0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., COSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

0318 GRIZEL,H., MICHEL,P., ABARNOU,A., GUEGAN,B. EFFECTS OF AMOCO-CADIZ OIL SPILL ON OYSTER CULTURES $ INST SCI TECH PECHES MARTIMES LA TRINITE/MER FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 715-26 1981

0330 HANN,R.W. JR. UNIT OPERATIONS UNIT PROCESSES AND LEVEL OF RESOURCE REQUIREMENTS FOR THE CLEANUP OF THE OIL SPILL FROM THE SUPERTANKER AMOCO-CADIZ $ TEX A AND M UNIV COLLEGE STATION PROC - OIL SPILL CONF LOS ANGELES CALIF P. 147-161 1979

0379 JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SEAGRASS COMMUNITY AT ROSCOFF WITH SPECIAL REFERENCE TO THE BENTHIC INFAUNA $ UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS MARINE ECOLOGY-PROGRESS SERIES 2 (3) P. 207-212 1980

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.R., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

0428 LAUBIER,L. AMOCO-CADIZ OIL SPILL: AN ECOLOGICAL IMPACT STUDY $ CENT NATL POUR L'EXPLOIT DES OCEANS BRETAGNE FR AMBIO 9 (6) P. 268-276 1980

0441 LEGLISE,M., RAGUENES,G. SURVEY ON EFFECTS OF AMOCO-CADIZ OIL SPILL ON EDIBLE CRUSTACEANS IN POLLUTED AREAS $ INST SCI TECH PECHES MARITIMES NANTES FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 775-87 1979

AMOCO-CADIZ

0489 MARCHAND,M., MONFORT,J.P., RUBIO,C. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE "AMOCO-CADIZ" OIL SPILLS $ CNEXO BREST FR AM CHEM SOC DIV ENVIRON CHEM PREPR 20 (2) P. 97-99 1980

0490 MARCHAND,M., MONFORT,J.P., RUBIO,C.A. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE AMOCO-CADIZ AND IXTOC-1 OIL SPILLS $ CTR OCEANOL BRETAGNE BREST FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 37P. 1980

0491 MARCHAND,M.H. THE AMOCO-CADIZ OIL SPILL DISTRIBUTION AND EVOLUTION OF HYDROCARBON CONCENTRATIONS IN SEAWATER AND MARINE SEDIMENTS $ CENT OCEANOL BRETAGNE CNEXO BREST FR ENVIRON INT 4 (5-6) P. 421-9 1980

0626 OUDOT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

0627 OUDOT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL $ LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE PUPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

0690 SAMAIN,J.F., MOAL,J., COUM,A., LECOR,J.R., DANIEL,J.Y. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON ZOOPLANKTON A NEW POSSIBILITY OF ECOPHYSIOLOGICAL SURVEY $ CTR OCEANOL BRETAGNE BP F-29273 BREST FRANCE HELGOLANDER MEERESUNTERSUCH- UNGEN 33 (1-4) P. 225-235 1980

0692 SAMAIN,J.F., MOAL,J., DANIEL,J.Y., BOUCHER,J., LEFEVRE,J. ECOPHYSIOLOGICAL EFFECTS OF OIL SPILLS FROM AMOCO-CADIZ ON PELAGIC COMMUNITIES PRELIMINARY RESULTS $ CENT OCEANOL DE BRETAGNE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 175-185 1979

0773 TOPINKA,J.A., TUCKER,L.R. LONG-TERM OIL CONTAMINATION OF FUCOID-MACROALGAE FOLLOWING THE AMOCO-CADIZ OIL SPILL $ BIGELOW LAB OCEAN SCI MCKOWN POINT/WEST BOOTHBAY HARBOR ME AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 393-403 1979

AMOCO-CADIZ

0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART 1 BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

0786 VANDERMEULEN,J.H., LONG,B.F.N., AHERN,T.P. BIOAVAILABILITY OF STRANDED AMOCO-CADIZ OIL AS A FUNCTION OF ENVIRONMENTAL SELF-CLEANING: APRIL 1978-JANUARY 1979 $ MAR ECOL LAB BEDFORD INST OCEANOGR DARTMOUTH NS AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 585-97 1979

0802 WARD,D.M., ATLAS,R.M., BOEHM,P.D., CALDER,J.A. MICROBIAL BIODEGRADATION AND CHEMICAL EVOLUTION OF OIL FROM THE AMOCO-CADIZ SPILL $ MONT STATE UNIV BOZEMAN AMBIO 9 (6) P. 277-283 1980

0876 DAUVIN,J.C. IMPACT OF AMOCO-CADIZ OIL SPILL ON THE MUDDY FINE SAND ABRA-ALBA AND MELINNA-PALMATA COMMUNITY FROM THE BAY OF MORLAIX $ STN BIOL ROSCOFF FRANCE ESTUARINE COASTAL AND SHELF SCIENCE 14 (5) P. 517-531 1982

0935 MOREL,G., COURTOT,P. EVOLUTION OF HYDROCARBONS IN A CONFINED MARINE SITE FOLLOWING THE PETROLEUM POLLUTION OF THE AMOCO-CADIZ $ UNIV BRETAGNE OCCIDENTALE FAC SCI AND TECH BREST FRANCE BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE PT I (11-1) P. 387-388 1981

0970 KAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., MEUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

1095 FAIRHALL,D., JORDAN,P. BLACK TIDE RISING - THE WRECK OF THE AMOCO-CADIZ $ ANDRE DEUTSCH LIMITED LONDON 1980

AMPHIPOD

0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BOECKOSIMUS-(#ONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

0437 LEE,W.Y., BACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TEORICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

AMPHITHOE-VALIDA
0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TEORICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

AMSTUTZ,D.E
0920 LANFEAR,K.J., AMSTUTZ,D.E. ENVIRONMENTAL STUDIES FOR OILSPILL TRAJECTORY MODELING IN THE SOUTH-EASTERN U.S. OUTER CONTINENTAL SHELF LEASING AREA $ US GEOL SURV USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 487-495 1981

AMTRAK
0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

AMY,G.L
0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

ANALYSES
0340 AWAD,H. COMPARATIVE STUDIES ON ANALYTICAL METHODS FOR THE ASSESSMENT OF PETROLEUM CONTAMINATION IN THE MARINE ENVIRONMENT II GAS-CHROMATOGRAPHIC ANALYSES $ FAC SCI UNIV ALEXANDRIA ALEXANDRIA EGYPT MAR CHEM 10 (5) P. 417-30 1981

0356 HOFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

0358 HOFFMAN,E.J., QUINN,J.G. GAS-CHROMATOGRAPHIC ANALYSES OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS AT THE WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231524 7P. 1981

ANALYSIS
0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

0019 ANGERMAN,C.L., BICKFORD,D.F., GOULD,T.H. JR., SMITH,P.K. SAFETY ANALYSIS REPORT FOR THE EXP-238-PUO-SUB-2-FUEL FORM FACILITY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 200P. 1977

0074 BERTHOU,F., GOURMELON,Y., DREANO,Y., FRIOCOURT,M.P. APPLICATION OF GAS-CHROMATOGRAPHY ON GLASS-CAPILLARY COLUMNS TO THE ANALYSIS OF HYDROCARBON POLLUTANTS FROM THE AMOCO-CADIZ OIL-SPILL $ FAC MED BREST CNRS SERV BIOCHIM CHROMATOG LAB EQUIPE RECH BP BREST FRANCE JOURNAL OF CHROMATOGRAPHY 203 P. 279-292 1981

ANALYSIS

0090 BLAYLOCK,J.W., VANDERHORST,J.R., ANDERSON,J.W. ROLE OF TISSUE ANALYSIS FOR PETROLEUM HYDROCARBONS IN MARINE POLLUTION RESEARCH $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 15P. 1979

0109 BRIGHT,D.B. WEST COAST OIL SPILLS A PROBABILITY ANALYSIS KEYED TO SOUTHERN CALIFORNIA $ ENVIRON FEASIBILITY STUD LOS ANGELES CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 45-51 1979

0119 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA EXECUTIVE SUMMARY $ PB-82-106352 45P. 1980

0120 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA TECHNICAL ANALYSIS $ PB-82-106360 675P. 1980

0121 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA SUPPLEMENT $ PB-82-106378 90P. 1980

0133 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME I BOOK 3 CHAPTERS XV-XX $ PB-80-177488 990P. 1977

0134 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME II MASTER BIBLIOGRAPHY INDEX ACKNOWLEDGEMENTS $ PB-80-177496 516P. 1977

0135 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME III APPENDIX A, B.AND C $ PB-80-177504 511P. 1977

0175 CHMIELOWIEC,J., BESHAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN LLOYDMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0224 DUNTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

ANALYSIS

0238 DEPARTMENT OF ENERGY WASHINGTON, D.C. SYNTHETIC FUELS AND THE ENVIRONMENT: AN ENVIRONMENTAL AND REGULATORY IMPACTS ANALYSIS $ 652P. 1980

0249 ESTES,J.E., WILSON,M., MAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

0284 GALLAWAY,B.J. AN ECOSYSTEM ANALYSIS OF OIL AND GAS DEVELOPMENT ON THE TEXAS-LOUISIANA CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-247181 100P. 1981

0381 JAPAN ATOMIC ENERGY RESEARCH INST TOKYO SAFETY ANALYSIS OF FUEL CIRCULATING SYSTEM FOR TOKAMAK EXPERIMENTAL FUSION REACTOR $ 161P. 1978

0386 JOHNSON,I., MYLES,K.M., SICZEK,A.A. SAMPLING AND ANALYSIS OF HYDROCARBONS IN COMBUSTION GASES QUARTERLY REPORT APRIL-JUNE 1980 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1980

0391 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 1 NARRATIVE $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-82-117078 322P. 1981

0392 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 2 APPENDICES $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-190944 477P. 1981

0394 KARELL,M. RELIABILITY AND SAFETY ANALYSIS OF ACTIVITY MEASURING SYSTEMS 1 RELIABILITY ANALYSIS OF THE STACK MONITORING SYSTEM 1317A $ AKTIEBOLAGET ATOMENERGI STUDSVIK (SWEDEN) STUDSVIK-IP-78-3 26P. 1978

0407 KLEIN,S.A., JENKINS,D. QUANTITATIVE AND QUALITATIVE ANALYSIS OF THE WATER SOLUBLE FRACTION OF JET-FUELS $ UNIV OF CALIF BERKELEY WATER RES 15 (1) P. 75-82 1981

0413 KREINHEDER,J.R. COASTAL PROTECTION FUNDS: A COMPARATIVE ANALYSIS OF STATE AND FEDERAL OIL SPILL LAWS AND LEGISLATION $ ALASKA STATE LEGISLATURE HOUSE RESEARCH AGENCY JUNEAU PB-81-194581 62P. 1981

0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-168 1981

0420 LAKE,J.L., DIMOCK,C.W., NORWOOD,C.B. COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ EPA NARRAGANSETT RI ADV CHEM SER 185 PET IN THE MAR ENVIRON SYMP AT THE MEET OF THE ACS P. 343-360 1980

ANALYSIS

0421 LAKE,J.L., DINUCK,C.W., NORWOOD,C.B. A COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-165839 20P. 1981

0484 MALINS,D.C., KRAHN,M.M., BROWN,D.W., MACLEOD,W.D., COLLIER,T.K. ANALYSIS FOR PETROLEUM PRODUCTS IN MARINE ENVIRONMENTS $ NOAA NATL MARINE FISHERIES SERV NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA HELGOLANDER MEERESUNTER- SUCHUNGEN 33 (1-4) P. 257-271 1980

0765 TERRY,J.M., GORHAM,A.M., LARSON,D.M., PAUST,B.C., SCOLES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

0766 THARAKAN,G.G., PSARAFTIS,H.N. A CRITICAL REVIEW OF OIL SPILL RISK ANALYSIS $ MIT CAMBRIDGE MA IN: IEEE OCEANS 81 CONFERENCE RECORD 1 AND 2 P. 933-938 1981

0779 IVEIT,O.J., MYKLATUN,B., BOHLER,T., VESTERHAUG,O. RISK ANALYSIS OF A TYPICAL NORTH SEA PETROLEUM PRODUCTION PLATFORM $ DET NOR VERITAS NORW OFFSHORE TECHNOL CONF 12TH ANNUAL PROC 4 P. 501-508 1980

0793 VERNBERG,E.J., ALTEKRUSE,E.B., BUTLER,S.O. PROCEEDINGS OF CONFERENCE ON OIL TANKER TRANSPORTATION: AN INTERDISCIPLINARY ANALYSIS OF NATIONAL AND INTERNATIONAL POLI $ SOUTH CAROLINA UNIV COLUMBIA AD-A080-085/4 250P. 1980

0840 BEDINGER,C.A., NULTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-1 BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV $ HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

0880 EDDIE,A.G.F. RISK ANALYSIS OF BERTHING ACCIDENTS INVOLVING LARGE SHIPS $ CUNNELL EDDIE AND ASSOC MELBOURNE AUSTRALIA IN: PERMANENT INT ASSOC NAV CONGRESSES P. 1-9 1981

0881 ELLENTON,J.A., HALLETT,D.J. MUTAGENICITY AND CHEMICAL ANALYSIS OF ALIPHATIC AND AROMATIC FRACTIONS OF PRUDHOE-BAY CRUDE-OIL AND FUEL-OIL-NO-2 $ DEPT ENVIRONM DIV WILDLIFE TOXICOL NATL WILDLIFE RES CTR OTTAWA CANADA JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 959-972 1981

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

ANALYSIS

0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

0919 LAMPHEAR,F.C., KESTREPO,C.E. IXTOC-1 OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

0934 MILLER,S. ALASKAN USA BEAUFORT SEA COASTLINE SENSITIVITY ANALYSIS AND OIL SPILL RESPONSE MANUAL $ SOHIO ALASKAN PETROLEUM CO ANCHORAGE ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 173-175 1981

0976 SAMUELS,W.B., LANFEAR,K.J., NAKASSIS,A. OIL SPILL RISK ANALYSIS FOR THE KODIAK-ISLAND $ GEOLOGICAL SURVEY RESTON VA 99P. 1980

1036 KARDOS,G. STUDY OF APPLICATION AND SUITABILITY OF HAZARD/RISK ANALYSIS METHODOLOGY FOR ENVIRONMENTAL CONSIDERATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-9 OTTAWA ONTARIO 1980

1063 GERMAN AND MILNE INC SUBSEA BLOWOUT CONTAINMENT SYSTEM CONCEPT ANALYSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-37 OTTAWA ONTARIO 1982

1064 INTERA ENVIRONMENTAL CONSULTANTS LIMITED REMOTE-SENSING ANALYSIS OF THE OIL SPILL DISPERSANT SEA TRIAL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-40 OTTAWA ONTARIO 1982

1096 ANONYMOUS METHODS FOR ANALYSIS AND TESTING PART 1 $ HEYDEN AND SON LTD LONDON 1980

ANALYTICAL

0040 AWAD,H. COMPARATIVE STUDIES ON ANALYTICAL METHODS FOR THE ASSESSMENT OF PETROLEUM CONTAMINATION IN THE MARINE ENVIRONMENT II GAS-CHROMATOGRAPHIC ANALYSES $ FAC SCI UNIV ALEXANDRIA ALEXANDRIA EGYPT MAR CHEM 10 (5) P. 417-30 1981

0056 BEAN,R.M., BLAYLOCK,J.W., RILEY,R.G. APPLICATION OF TRACE ANALYTICAL TECHNIQUES TO A STUDY OF HYDROCARBON COMPOSITION UPON DISPERSION OF PETROLEUM IN A FLOWING SEAWATER SYSTEM $ BATTELLE MEM INST PACIFIC NW LABS BATTELLE BLVD RICHLAND WA IN: PETRAKIS,L., WEISS,F.T. PETROLEUM IN THE MARINE ENVIRONMENT 185 P. 235-246 1980

0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MULHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

ANAS-PLATYRHYNCHOS

0308 GURSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

ANATOMY

0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

ANDERSON,C.P

0017 ANDERSON,C.P., KILLEEN,T.J., TAFT,J.B., BENTA,A.P. IMPROVED IDENTIFICATION OF SPILLED OILS BY INFRARED-SPECTROSCOPY $ UNIV OF CONN GROTON ENVIRON SCI TECHNOL 14 (10) P. 1230-1234 1980

ANDERSON,J.W

0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

0090 BLAYLOCK,J.W., VANDERHORST,J.R., ANDERSON,J.W. ROLE OF TISSUE ANALYSIS FOR PETROLEUM HYDROCARBONS IN MARINE POLLUTION RESEARCH $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 15P. 1979

0672 RILEY,R.G., THOMAS,B.L., ANDERSON,J.W., BEAN,R.M. CHANGES IN THE VOLATILE HYDROCARBON CONTENT OF PRUDHOE-BAY CRUDE-OIL TREATED UNDER DIFFERENT SIMULATED WEATHERING CONDITIONS $ BATTELLE PAC NORTHWEST LAB RICHLAND WA MAR ENVIRON RES 4 (2) P. 109-19 1980

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

ANDERSON,R.C

0509 MEADE,N.F., ANDERSON,R.C. PROBLEMS AND PERSPECTIVES IN MEASURING THE SOCIAL COSTS OF OIL POLLUTION $ NOAA WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 59-62 1979

ANDRESON,R.K

0088 ANDRESON,R.K., MUKHATANOV,A.K., BOIKO,T.F. ECOLOGICAL CONSEQUENCES OF SOIL POLLUTION WITH OIL $ ACAD SCI USSR INST BIOL UFA SOVIET JOURNAL OF ECOLOGY 11 (6) P. 340-344 1980

ANGERMAN,C.L

0019 ANGERMAN,C.L., BICKFORD,D.F., GOULD,T.H. JR., SMITH,P.K. SAFETY ANALYSIS REPORT FOR THE EXP-238-PUO-SUB-2-FUEL FORM FACILITY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 200P. 1977

ANGLES,M

0790 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DE-ROOCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE REP (9) 52P. 1980

1113 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DEBROCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE 1980

ANIKIEV,V.V

0016 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SOKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

ANIMALS

0824 WU,R.S.S. DIFFERENCES IN THE TOXICITIES OF AN OIL DISPERSANT AND A SURFACE ACTIVE AGENT TO SOME MARINE ANIMALS AND THEIR IMPLICATIONS IN THE CHOICE OF SPECIES IN TOXICITY TESTING $ FISHERIES RES STN ABERDEEN HONG KONG MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 157-163 1981

ANOMALOCERA-PATERSONI

0691 SAMAIN,J.F., MOAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE COZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

ANTARCTIC

0569 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS AND OIL POLLUTION IN THE ARCTIC AND ANTARCTIC JANUARY 1970-MAY 1981 (CITATIONS FROM POLLUTION ABSTRACTS) $ PB-81-866592 38P. 1981

0950 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS AND OIL POLLUTION IN THE ARCTIC AND ANTARCTIC 1970-APRIL 1982 (CITATIONS FROM POLLUTION ABSTRACTS) $ PB82-864620 58P. 1982

ANTARCTICA

0904 HAMMOND,K.A.G. ENVIRONMENTAL ASPECTS OF POTENTIAL PETROLEUM EXPLORATION AND EXPLOITATION IN ANTARCTICA: FORECASTING AND EVALUATING RISKS $ MARINE MAMMAL COMMISSION WASHINGTON,D.C. PB82-169772 34P. 1982

ANTI-OCEAN-POLLUTION

0602 NOBUNAGA,H. ANTI-OCEAN-POLLUTION EQUIPMENT AND SHIPS FOR RECOVERING SPILT OIL $ WORKSHIP DES DEP ISHIKAWAJIMA-HARIMA HEAVY IND CO LTD TOKYO JAPAN NENRYO DYOBI NENSHO 47 (8) P. 651-68 1980

ANTONIO-GRAMSCI

0605 NUTINI,M., MATTSSON,J., LINDEN,O. DISPERSAL AND EFFECTS OF THE ANTONIO-GRAMSCI OIL SPILL IN THE STOCKHOLM ARCHIPELAGO $ SWEDISH WATER AND AIR POLLUTION RESEARCH LAB FRYKSTA 32P. 1980

ANUFRIEVA,N.M

0599 NESTEROVA,M.P., ANUFRIEVA,N.M., GORITSKII,A.B., SHUTER,L.M., VERLINSKAYA,R.M. REMOVAL OF OIL POLLUTANTS FROM WATER BODIES BY MEANS OF HYDROPHOBIC SORBENTS $ WATER RESOUR 7 (4) P. 375-379 1980

0958 NESTEROVA,M.P., ANUFRIEVA,N.M., LEVINA,R.M. INVESTIGATION OF CHEMICAL AGENTS CONTAINING THE SPREAD OF OIL ON A WATER SURFACE $ WATER RESOUR 8 (1) P. 85-91 1981

APPAN,S.G

0977 SHARP,J.M., APPAN,S.G. THE CUMULATIVE ECOLOGICAL EFFECTS OF NORMAL OFFSHORE PETROLEUM OPERATIONS CONTRASTED WITH THOSE RESULTING FROM CONTINENTAL SHELF OIL SPILLS $ GULF UNIV RES CONSORTIUM HOUSTON TX PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 309-322 1982

APPLICATIONS

0704 SCIENCE APPLICATIONS INC BOULDER CO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF LOWER COOK INLET INTERIM SYNTHESIS REPORT $ PB-80-130735 252P. 1979

0705 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME I $ PB-80-143704 203P. 1979

0706 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 1-7 $ PB-80-143712 400P. 1979

0707 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 8-15 $ PB-80-143720 395P. 1979

0708 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORTS 10-19 $ PB-80-143753 596P. 1979

0709 SCIENCE APPLICATIONS INC LA-JOLLA CA SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME III METHODOLOGY REPORTS $ PB-80-166119 237P. 1979

0749 STONER,R.R. TROPICAL OIL SPILL CONTINGENCY PLANNING REQUIREMENTS AND APPLICATIONS $ NUS CORP ROCKVILLE MD IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 663-677 1981

0809 WHELAN,J.K., HUNT,J.M., HUC,A.Y. APPLICATIONS OF THERMAL DISTILLATION-PYROLYSIS TO PETROLEUM SOURCE ROCK STUDIES AND MARINE POLLUTION $ DEPT CHEM WOODS HOLE MA JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS 2 (1) P. 79-96 1980

APPLICATIONS

1053 REMOTEC APPLICATIONS INC LABORATORY EXPERIMENTS IN THE DETECTION OF OIL UNDER ICE $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-26 OTTAWA ONTARIO 1981

AQUATIC

0190 CONNELL,D.W., MILLER,G.J. PETROLEUM HYDROCARBONS IN AQUATIC ECOSYSTEMS BEHAVIOR AND EFFECTS OF SUBLETHAL CONCENTRATIONS 1 $ GRIFFITH UNIV QUEENS LAND AUSTRALIA CRIT REV ENVIRON CONTROL 11 (1) P. 37-104 1981

0300 GIDDINGS,J.M., PARKHURST,B.R., GEHRS,C.W., MILLEMANN,R.E. TOXICITY OF A COAL LIQUEFACTION PRODUCT TO AQUATIC ORGANISMS $ OAK RIDGE NATL LAB TENN BULL ENVIRON CONTAM TOXICOL 25 (1) P. 1-6 1980

0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSOPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MULHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BROWNS,W.A., CUMMING,R.B. WATER CHLORINATION 3 P. 845-850 1980

0723 SIMPSUN,K.W. ABNORMALITIES IN THE TRACHEAL GILLS OF AQUATIC INSECTS COLLECTED FROM STREAMS RECEIVING CHLORINATED OR CRUDE-OIL WASTES $ NEW YORK STATE DEPT HLTH DIV LABS AND RES ALBANY NY FRESHWATER BIOLOGY 10 (6) 581P. 1980

0747 STICKEL,L.F., DIETER,M.P. ECOLOGICAL AND PHYSIOLOGICAL/TOXICOLOGICAL EFFECTS OF PETROLEUM ON AQUATIC BIRDS A SUMMARY OF RESEARCH ACTIVITIES FY76 $ FISH AND WILDLIFE SERVICE LAUREL MD PB-80-127285 20P. 1979

1080 EATON,J.G., PARRISH,P.R., HENDRICKS,A.C. AQUATIC TOXICOLOGY $ PROCEEDINGS OF THE THIRD ANNUAL SYMPOSIUM ON AQUATIC TOXICOLOGY AMERICAN SOCIETY FOR TESTING AND MATERIALS PHILADELPHIA PA 405P. 1978

AQUIFER

0928 MATHES,G.M. SPILLED PETROLEUM RECOVERED FROM ATOP WATER-TABLE OF MISSISSIPPI AQUIFER $ JOHN MATHES AND ASSOC INC COLUMBIA IL CIVIL ENGINEERING 52 (6) P. 58-59 1982

AQUIFERS
0698 SCHIEGG,H.O. FIELD INFILTRATION AS A METHOD FOR THE DISPOSAL OF OIL-IN-WATER EMULSIONS FROM THE RESTORATION OF OIL POLLUTED AQUIFERS $ LAB HYDRAULICS HYDROL GLACIOL SWISS FED INST TECHNOL ZURICH SWITZ WATER RES 14 (8) P. 1011-16 1980

ARABIAN-GULF
0444 LEHR,W.J., BELEN,M.S., CEKIRGE,H.M. SIMULATED OIL SPILLS AT 2 OFFSHORE FIELDS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV RES INST DIV WATER AND ENVIRON DHAHRAN SAUDI ARABIA MARINE POLLUTION BULLETIN 12 (11) P. 371-374 1981

0445 LEHR,W.J., CEKIRGE,H.M. OIL SLICK MOVEMENTS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV DEPT MATH SCI DHAHRAN SAUDI ARABIA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 737-741 1981

ARAVAMUDAN,K
0028 ARAVAMUDAN,K., KAJ,P.K., NEWMAN,E., TUCKER,W.A. BREAK-UP OF OIL ON ROUGH SEAS SIMPLIFIED MODELS AND STEP-BY-STEP CALCULATIONS $ COAST GUARD WASHINGTON, D.C. AD-A084-240/1 210P. 1979

0658 KAJ,P.P.K., MOUSSA,A.N., ARAVAMUDAN,K. EXPERIMENTS INVOLVING POOL AND VAPOR FIRES FROM SPILLS OF LIQUEFIED-NATURAL-GAS ON WATER $ COAST GUARD WASHINGTON, D.C. AD-A077-073/5 258P. 1979

ARCHER,S.J
1145 ARCHER,S.J. DRIFT INTERACTIVE COMPUTER MODEL FOR PREDICTING OIL SLICK MOVEMENT $ OFFSHORE ENVIRONMENTAL SYSTEMS LTD UK 1980

ARCHER,W.E
0360 HOLLAND,L.M., SPALL,W.D., GARCIA,L.L., ROM,W.N. (ED), ARCHER,W.E. (ED) INHALATION TOXICOLOGY OF OIL-SHALE RELATED MATERIALS $ LOS ALAMOS SCI LAB UNIV CALIFORNIA LOS ALAMOS NM HEALTH IMPLIC NEW ENERGY TECHNOL (PARK CITY ENVIRON HEALTH CONF) P. 515-26 1979

ARCTIC
0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BOECKOSIMUS-(ONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

0204 CROW,S.A., AHEARN,D.G. DEGRADATION OF OIL BY YEAST AND FILAMENTOUS FUNGI IN ARCTIC ENVIRONMENTS $ GEORGIA STATE UNIV ATLANTA AD-A078-892/7 13P. 1979

0208 DAVIS,R.A. REPORT ON A WORKSHOP ON ARCTIC MARINE MAMMALS $ LGL LIMITED ENVIRONMENTAL RESEARCH ASSOCIATES TORONTO ONTARIO CAN TECH REP FISH AQUAT SCI 0 (1005) P. IV, 1-13 1981

ARCTIC

0286 GARRETT,J.M. ARCTIC ALASKA AND ICEBREAKING: AN ASSESSMENT OF FUTURE REQUIREMENTS FOR THE UNITED STATES COAST GUARD $ NAVAL POSTGRADUATE SCHOOL MONTEREY CA AD-A100-990/1 189P. 1981

0385 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MORITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0386 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSOPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

0524 MORSON,B., SOBEY,E. RESPONSE TO OIL SPILLS IN THE ARCTIC ENVIRONMENT: A REVIEW $ SCI APPL INC BOULDER COND OCEANS (NEW YORK) ANNU COMB CONF OF IEEE AND MAR TECHNOL SOC 1979

0569 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS AND OIL POLLUTION IN THE ARCTIC AND ANTARCTIC JANUARY 1970-MAY 1981 (CITATIONS FROM POLLUTION ABSTRACTS) $ PB-81-866592 38P. 1981

0680 ROSS,S.L. THE DEVELOPMENT OF COUNTERMEASURES FOR OIL SPILLS IN CANADIAN ARCTIC WATERS $ ENVIRONM PROTECT SERV PROGRAM ARCT MARINE OIL SPILL OTTAWA ONTARIO IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 377-399 1981

0792 VENKATESH,S., SAHOTA,H.S., RIZKALLA,A.S. PREDICTION OF THE MOTION OF OIL SPILLS IN CANADIAN ARCTIC WATERS $ ATMOS ENVIRON SERV DOWNSVIEW ONT CAN PROC - OIL SPILL LOS ANGELES CALIF P. 677-683 1979

0804 WELLER,G. OIL POLLUTION IN ICE-COVERED ARCTIC WATERS $ UNIV ALASKA INST GEOPHYS FAIRBANKS AK IN: NORWEGIAN INST TECHNOL POAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 1 P. 393-406 1979

0845 BLACK,W.T., HOLLOWAY,D.M., LUSCHER,U., NYMAN,D.J., THOMAS,H.P. STUDY OF THE FACTORS AFFECTING THE SAFETY OF ARCTIC PIPELINES $ DEPARTMENT OF TRANSPORTATION WASHINGTON,D.C. PB82-149030 114P. 1981

0887 FOGELQVIST,E., LAGERKVIST,S., LINDROTH,P. PETROLEUM HYDROCARBONS IN THE ARCTIC OCEAN SURFACE WATER $ GOTHENBURG UNIV DEPT ANALYT AND MARINE CHEM GOTHENBURG SWEDEN MARINE POLLUTION BULLETIN 13 (6) P. 211-213 1982

ARCTIC

0927 MALINS,D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 5 BIOLOGICAL STUDIES: ASSESSMENT OF AVAILABLE LITERATURE ON EFFECTS OF OIL POLLUTION ON BIOTA IN ARCTIC AND SUBARCTIC WATERS $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-171794 716P. 1979

0930 MCKINLEY,V.L., FEDERLE,T.W., VESTAL,J.R. EFFECTS OF PETROLEUM HYDROCARBONS ON PLANT LITTER MICROBIOTA IN AN ARCTIC LAKE $ UNIV CINCINNATI DEPT BIOL SCI CINCINNATI OH APPLIED AND ENVIRONMENTAL MICROBIOLOGY 43 (1) P. 129-135 1982

0939 NATIONAL RESEARCH COUNCIL WASHINGTON,D.C. ARCTIC TERRESTRIAL ENVIRONMENTAL RESEARCH PROGRAMS OF THE OFFICE OF ENERGY RESEARCH DEPARTMENT OF ENERGY: EVALUATION AND RECOMMENDATIONS $ PB82-197088 80P. 1982

0950 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS AND OIL POLLUTION IN THE ARCTIC AND ANTARCTIC 1970-APRIL 1982 (CITATIONS FROM POLLUTION ABSTRACTS) $ PB82-864620 58P. 1982

1018 FOY,M.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-3 OTTAWA ONTARIO 1982

1044 ENERGEX ENGINEERING ARCTIC FIELD TRIALS OF THE DREV/AMOP INCENDIARY DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-17 OTTAWA ONTARIO 1981

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

ARGO-MERCHANT

0356 HUFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

0357 HUFFMAN,E.J., QUINN,J.G. A COMPARISON OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS FROM NANTUCKET SHOALS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231508 12P. 1981

0358 HUFFMAN,E.J., QUINN,J.G. GAS-CHROMATOGRAPHIC ANALYSES OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS AT THE WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231524 7P. 1981

ARGOPECTEN-IRRADIANS
0623 URDZIK,C.J., GAROFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

ARIEL,N.Z
0029 ARIEL,N.Z., BYUINER,E.K., BORTKOVSKII,R.S., STRUKINA,L.A. INFLUENCE OF OIL FILM POLLUTION OF THE OCEAN ON OXYGEN EXCHANGE WITH THE ATMOSPHERE $ SOV METEOROL HYDROL (2) P. 47-54 1979

ARMSTRONG,A.L
0046 BAKEMAN,P.E. JR., ARMSTRONG,A.L. SYSTEMS APPROACH TO BEACH PROTECTION FOR OIL SPILL INCIDENTS PHASE I. FEASIBILITY STUDY $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OHIO PB-80-198997 56P. 1975

ARNOLD,V.L
0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

AROMATIC
0881 ELLENTON,J.A., HALLETT,D.J. MUTAGENICITY AND CHEMICAL ANALYSIS OF ALIPHATIC AND AROMATIC FRACTIONS OF PRUDHOE-BAY CRUDE-OIL AND FUEL-OIL-NO-2 $ DEPT ENVIRONM DIV WILDLIFE TOXICOL NATL WILDLIFE RES CTR OTTAWA CANADA JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 959-972 1981

0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

AROMATIC-HYDROCARBONS
0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.R., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

ARST,K.H.Y
0836 ARST,K.H.Y., KARD,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

ARTEMIA-SALINA
0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

ARTHROPODA:-CRUSTACEA
0199 COUCH,J.A. SHRIMPS (ARTHROPODA:-CRUSTACEA:- PENAEIDAE) $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-80-185259 26P. 1979

ARTICOLA,W.P
0643 PERRY,W.W., ARTICOLA,W.P. STUDY TO MODIFY THE VULNERABILITY MODEL OF THE RISK MANAGEMENT SYSTEM $ ENVIRO CONTROL INC ROCKVILLE MD AD-A084-214/6 212P. 1980

ASIF,A.M
0030 ASIF,A.M., TATTERSON,G.B. OIL WATER DISPERSION MECHANISMS IN AGITATED VESSELS $ UNIV S CAROLINA COLUMBIA SC IN: VEZIROGLU,T.N. MULTIPHASE TRANSPORT 5 VOLS FUNDAMENTALS REACTOR SAFETY APPLICATIONS P. 133-144 2932P. 1980

ASLIN,J
1092 ASLIN,J., HOSSAIN,K., MACKAY,D. EFFECTIVENESS OF AERIALLY APPLIED DISPERSANTS $ DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED CHEMISTRY TORONTO CANADA 1981

ASPHALTENE
0531 MURZAKOV,R.M., SABANENKOV,S.A., SYUNYAEV,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 674-677 1980

ASPHALTENES
0963 PAPIRER,E., BOURGEOIS,C., SIFFERT,B., BALARD,H. CHEMICAL NATURE AND WATER OIL EMULSIFYING PROPERTIES OF ASPHALTENES $ CTR RECH PHYS CHIM SURFACES SOLIDES MULHOUSE FRANCE FUEL 61 (8) P. 732-734 1982

ASSESSING
0639 PEAKALL,D.B., MILLER,D.S., KINTER,W.B. PHYSIOLOGICAL TECHNIQUES FOR ASSESSING THE IMPACT OF OIL ON SEABIRDS $ CAN WILDL SERV OTTAWA ONT ASTM SPEC TECH PUBL N 693 AVIAN AND MAMM WILDL TOXICOL (SYMP) NEW ORLEANS P. 52-60 1978

ASSESSING

0693 SAMPSON,A.R., SMITH,R.L. ASSESSING RISKS THROUGH THE DETERMINATION OF RARE EVENT PROBABILITIES $ AIR FORCE OFFICE OF SCIENTIFIC RESEARCH BOLLING AFB D.C. AD-A092-192/4 47P. 1980

ASSESSMENT

0012 ALVARADO,U.R., CHAFARIS,G., CHESTEK,J., CONRAD,J., FRIPPEL,G. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: TECHNICAL VOLUME EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 464P. 1980

0013 ALVARADO,U.R. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 68P. 1980

0021 ANON. PROCEEDINGS OF THE CONFERENCE ON ASSESSMENT OF ECOLOGICAL IMPACTS OF OIL SPILLS 1978 $ AM INST OF BIOL SCI ARLINGTON VA PROC OF THE CONF ON ASSESS OF ECOL IMPACTS OF OIL SPILLS 936P. 1978

0040 AWAD,H. COMPARATIVE STUDIES ON ANALYTICAL METHODS FOR THE ASSESSMENT OF PETROLEUM CONTAMINATION IN THE MARINE ENVIRONMENT II GAS-CHROMATOGRAPHIC ANALYSES $ FAC SCI UNIV ALEXANDRIA ALEXANDRIA EGYPT MAR CHEM 10 (5) P. 417-30 1981

0093 BOEHM,P.D., STEINHAUER,W.G., FIEST,D.L., MOSESMAN,N., BARAK,J.E., PERRY,G.H. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON POLLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMERIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

0125 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 9 BIOLOGICAL STUDIES $ PB-82-117474 675P. 1981

0126 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 10 BIOLOGICAL STUDIES $ PB-82-124975 790P. 1981

0127 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 11 BIOLOGICAL STUDIES $ PB-82-124983 675P. 1981

0136 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF NORTHEAST GULF OF ALASKA INTERIM SYNTHESIS REPORT $ PB-81-177863 298P. 1980

ASSESSMENT

0137 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-186810 774P. 1979

0138 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME III RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186836 643P. 1979

0139 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF THE YEAR ENDING MARCH 1979 VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186844 669P. 1979

0140 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME V RECEPTORS MICROBIOLOGY CONTAMINANT BASELINES $ PB-80-186851 703P. 1979

0141 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VII TRANSPORT $ PB-80-186877 569P. 1979

0142 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VIII TRANSPORT $ PB-80-186885 592P. 1979

0143 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME IX HAZARDS $ PB-80-186893 686P. 1979

0144 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME X HAZARDS DATA MANAGEMENT $ PB-80-186901 522P. 1979

0145 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF EXECUTIVE SUMMARY APRIL 1978-MARCH 1979 $ PB-80-186919 112P. 1979

0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

0147 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME II: RECEPTORS MICROBIOLOGY ECOLOGICAL PROCESSES $ PB-81-196271 521P. 1980

ASSESSMENT

0148 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME III: EFFECTS AND CONTAMINANT BASELINES $ PB-81-196269 359P. 1980

0150 BUREAU OF LAND MANAGEMENT NEW-YORK ASSESSMENT OF SPACE AND USE CONFLICTS BETWEEN THE FISHING AND OIL INDUSTRIES VOLUME II ENGINEERING ASSESSMENT $ PB-81-215972 158P. 1981

0194 CORFIELD,M.M., HAWKINS,H.L., JOHN,P., SOUTAR,I. ASSESSMENT OF PHOSPHORESCENCE-SPECTROSCOPY FOR CRUDE-OIL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ANALYST (LONDON) 106 (1259) P. 188-97 1981

0236 DEPARTMENT OF ENERGY, WASHINGTON, D.C. LIQUEFIED GASEOUS FUELS SAFETY AND ENVIRONMENTAL CONTROL ASSESSMENT PROGRAM: SECOND STATUS REPORT $ 229P. 1980

0242 DEPARTMENT OF ENERGY WASHINGTON, D.C. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL REPORT $ 1042P. 1980

0258 FENNER,R.G., REID,S.C., SOLIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

0264 FLEMING,K.N., SILADY,F.A., HANNAMAN,G.W. TREATMENT OF OPERATOR ACTIONS IN THE HTGR RISK ASSESSMENT STUDY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1979

0275 FRANKLIN,A.L. TRECII: A COMPUTER PROGRAM FOR TRANSPORTATION RISK ASSESSMENT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 89P. 1980

0283 GABOR,T., GRIFFITH,T.K. ASSESSMENT OF COMMUNITY VULNERABILITY TO ACUTE HAZARDOUS MATERIALS INCIDENTS $ OHIO STATE UNIV COLUMBUS J HAZARD MATER 3 (4) P. 323-333 1980

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0286 GARRETT,J.M. ARCTIC ALASKA AND ICEBREAKING: AN ASSESSMENT OF FUTURE REQUIREMENTS FOR THE UNITED STATES COAST GUARD $ NAVAL POSTGRADUATE SCHOOL MONTEREY CA AD-A100-990/1 189P. 1981

0292 GEFFEN,C.A. ASSESSMENT OF THE RISK OF TRANSPORTING PROPANE BY TRUCK AND TRAIN $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 211P. 1980

0293 GEFFEN,C.A., FRANKLIN,A.L. ASSESSMENT OF THE RISK OF TRANSPORTING PROPANE BY TRUCK AND TRAIN $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 17P. 1979

ASSESSMENT

0303 GILL,S.D., RYAN,W. ASSESSMENT OF THE ACW-400 OIL SKIMMER BY THE CANADIAN COAST GUARD FOR OIL SPILL COUNTERMEASURE OPERATIONS $ CAN COAST GUARD EMERG OTTAWA ONT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 497-499 1979

0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

0364 HOUGHTON,W.J. LICENSING TOPICAL REPORT: APPLICATION OF PROBABILISTIC RISK ASSESSMENT IN THE SELECTION OF DESIGN BASIS ACCIDENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 50P. 1980

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1976-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

0378 JACKSON,W.B. ENVIRONMENTAL ASSESSMENT OF AN ACTIVE OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1977-1978 VOLUME II DATA MANAGEMENT AND BIOLOGICAL INVESTIGATIONS $ NATIONAL MARINE FISHERIES SERVICE GALVESTON TX PB-80-165970 799P. 1979

0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-168 1981

0424 LASDAY,A.H. ASSESSMENT OF RISK TO MARINE BIOTA DURING AN OIL SPILL $ TEXACO INC USA PROC COUNC ECON AIME 108TH ANNU MEET P. 25-3 1979

0440 LEES,F.P. SOME ASPECTS OF HAZARD SURVEY AND ASSESSMENT $ LOUGHBOROUGH UNIV OF TECHNOL LEICESTERSHIRE ENGL CHEM ENG (LONDON) (363) P. 736-741 1980

0463 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY ENVIRONMENTAL ASSESSMENT $ AD-A091-403/6 94P. 1973

0516 MIDDLEDITCH,B.S. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME V HYDROCARBONS BIOCIDES AND SULFUR $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-178451 106P. 1980

0525 MOSS,T.J. QUANTITATIVE TECHNIQUES FOR NUCLEAR PLANT SAFETY ASSESSMENT AND DESIGN $ AUSTRALIAN ATOMIC ENERGY COMMISSION GOOGEE 9P. 1978

ASSESSMENT

0541 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-130008 781P. 1978

0542 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME II RECEPTORS BIRDS $ PB-80-130016 964P. 1978

0543 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME III RECEPTORS BIRDS $ PB-80-130024 912P. 1978

0544 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130032 734P. 1978

0545 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME V RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130040 377P. 1978

0546 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VI RECEPTORS MICROBIOLOGY $ PB-80-130057 502P. 1978

0547 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VII EFFECTS $ PB-80-130065 761P. 1978

0548 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VIII CONTAINMENT BASELINES $ PB-80-130073 628P. 1978

0549 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME X TRANSPORT $ PB-80-130099 933P. 1978

0550 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XI HAZARDS $ PB-80-130107 693P. 1978

0551 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XII HAZARDS $ PB-80-130115 626P. 1978

0629 UZKAYNAK,H., MURPHY,B.L., WATSON,J.L. COMPARATIVE RISK ASSESSMENT TECHNIQUE FOR TANKER OIL SPILLS $ ENVIRON RES AND TECHNOL INC LEXINGTON MASS PROC - OIL SPILL LOS ANGELES CALIF P. 37-43 1979

0632 PALM,D.J., ALEXANDER,M.M., PHILLIPS,D.M., LONGABUCCO,P. DAMAGE ASSESSMENT STUDIES FOLLOWING THE NEPCO-140 OIL SPILL ON THE ST.-LAWRENCE RIVER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-154594 175P. 1979

ASSESSMENT

0634 PARASHAR,S., STAPLETON,G., MORSFOLD,R., ONEIL,R., GRAY,L. ASSESSMENT OF SAR FOR OIL POLLUTION SURVEILLANCE IN THE ICE ENVIRONMENT $ REMOTEC APPLICAT INC ST JOHNS NEWFOUNDLAND IN: NORWEGIAN INST TECHNOL POAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 3 P. 99-123 1979

0654 PROVOST,L.P., WETHEROLD,K.G., HARRIS,G.E., HOOPER,M.W., PHILLIPS,W.R. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 4 APPENDICES C, D AND E $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-103830 529P. 1980

0657 PURNELL,J. A DEEPWATER OIL AND GAS TECHNOLOGY ASSESSMENT $ GEOLOGICAL SURVEY RESTON VA PB-81-243032 253P. 1981

0704 SCIENCE APPLICATIONS INC BOULDER CO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF LOWER COOK INLET INTERIM SYNTHESIS REPORT $ PB-80-130735 252P. 1979

0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192429 63P. 1980

0727 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME III BACTERIOLOGY OF A GULF OF MEXICO GAS AND OIL FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192189 54P. 1980

0729 SMALL,M.J., LAMBERT,W.P. A STOCHASTIC PROCEDURE FOR ALLOCATION OF FUNDS FOR TOXICOLOGICAL AND ENVIRONMENTAL RESEARCH ON THE BASIS OF HAZARD ASSESSMENT $ ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB FORT DETRICK MD AD-A091-688/2 8P. 1979

0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

0764 TAYLOR,A. STRATEGIC PETROLEUM RESERVE WEST HACKBERRY OIL STORAGE CAVERN FIRE AND SPILL OF SEPTEMBER 21 1978: AN ENVIRONMENTAL ASSESSMENT FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 680P. 1980

0769 TILLERY,J.B. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME VIII TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192452 127P. 1980

0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

ASSESSMENT

0808 WETHEROLD,R.G., ROSEBROOK,D.D. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 1 TECHNICAL REPORT $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-80-225253 482P. 1980

0815 WILLIAMS,D.C., HOM,K.B. ONSHORE IMPACTS OF OFFSHORE OIL: A USER'S GUIDE TO ASSESSMENT METHODS $ DEPARTMENT OF THE INTERIOR WASHINGTON, D.C. PB-82-103474 72P. 1979

0817 WILSON,M.P. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 1048P. 1981

0846 BOEHM,P. IXTOC OIL SPILL ASSESSMENT: EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-197773 41P. 1982

0847 BOEHM,P. IXTOC OIL SPILL ASSESSMENT: FINAL REPORT (SECTIONS 1-8) $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-197781 335P. 1982

0848 BOEHM,P. IXTOC OIL SPILL ASSESSMENT: APPENDICES (SECTION 9) $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-197799 86P. 1982

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

0918 KORNBERG,H. OIL POLLUTION OF THE SEA AN ASSESSMENT $ ROYAL COMMISS ENVIRONM POLLUT LONDON ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 429-432 1982

0927 MALINS,D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 5 BIOLOGICAL STUDIES: ASSESSMENT OF AVAILABLE LITERATURE ON EFFECTS OF OIL POLLUTION ON BIOTA IN ARCTIC AND SUBARCTIC WATERS $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-171794 716P. 1979

0931 MERCER,B.W., NAKAMIYA,W., PETTY,S.E., STRAND,J.A., MAHLUM,D.D. ASSESSMENT OF SYNFUEL SPILL CLEANUP OPTIONS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 15P. 1981

1008 HARDY ASSOCIATES (1978) LTD PRELIMINARY ASSESSMENT OF CERTAIN BEACH CLEANUP TECHNIQUES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-1 OTTAWA ONTARIO 1981

1033 MACKAY,D., KRISTMANSON,D.D., PICOT,J.J.C., SMEDLEY,J.B. THEORETICAL ASSESSMENT AND DESIGN STUDY OF THE AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-6 OTTAWA ONTARIO 1980

1084 WILSON,M.P. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL TECHNICAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 1981

ASSESSMENTS
0209 DAVIS,H.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

0240 DEPARTMENT OF ENERGY WASHINGTON, D.C. LIQUIFIED-NATURAL-GAS WIND-TUNNEL SIMULATION AND INSTRUMENTATION ASSESSMENTS $ 366P. 1978

ATEMA,J
0837 ATEMA,J., KARNOFSKY,E.B., OLESZKO-SZUIS,S., BRYANT,B. LOBSTER BEHAVIOR AND CHEMORECEPTION: SUBLETHAL EFFECTS OF NUMBER-2-FUEL-OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-192444 71P. 1982

ATHABASCA
0673 RIPMEESTER,J.A., SIRIANNI,A.F. RECOVERY OF WATER AND BITUMEN FROM THE ATHABASCA OIL SAND TAILINGS PONDS $ NATL RES COUNCIL CANADA ONT JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (1) P. 131-133 1981

ATLANTIC
0057 BECCASIO,A.D., WEISSBERG,G.H., REDFIELD,A.E., FREW,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

0094 BOESCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALONGI,D.M., BOWEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 258P. 1981

0099 BOESCH,D.F., HARTZBAND,D.J., ELLISON,R.L. MIDDLE ATLANTIC OUTER CONTINENTAL SHELF ENVIRONMENTAL STUDIES VOLUME IIB CHEMICAL AND BIOLOGICAL BENCHMARK STUDIES $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-174765 562P. 1979

0212 DELIKAT,D.S. IXTOC-I OIL SPILL AND ATLANTIC RIDLEY-TURTLE SURVIVAL $ US COAST GUARD WASHINGTON, D.C. PROC OF THE SUMP ON COASTAL AND OCEAN MANAGE 2ND I P. 312-319 1980

0478 MACCUBBIN,A.E., KATOR,H. DISTRIBUTION ABUNDANCE AND PETROLEUM DEGRADING POTENTIAL OF MARINE BACTERIA FROM MIDDLE ATLANTIC CONTINENTAL SHELF WATERS $ VIRGINIA INST MARINE SCI DEPT MICROBIOL PATHOL GLOUCESTER POINT VA IN: BOURQUIN,A.W., PRITCHARD,P.H. PROCEEDINGS OF THE WORKSHOP: MICROBIAL DEGRADATION OF POLLUTANTS IN MARINE ENVIRONMENTS P. 380-395 1979

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

ATLANTIC
1057 KEIZER,P.D. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY - ATLANTIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-30 OTTAWA ONTARIO 1982

ATLAS
0073 BERRYHILL,H.L. JR., SHIDELER,G.L., HOLMES,C.W., BARNES,S.S., HILL,G.W. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975: AN ATLAS AND INTEGRATED SUMMARY $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-217763 325P. 1977

ATLAS,R.M
0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,D., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1980

0032 ATLAS,R.M., BOEHM,P.D., CALDER,J.A. CHEMICAL AND BIOLOGICAL WEATHERING OF OIL FROM THE AMOCO-CADIZ SPILLAGE WITHIN THE LITTORAL ZONE $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY ESTUARINE COASTAL AND SHELF SCIENCE 12 (5) P. 589-608 1981

0033 ATLAS,R.M. FATE OF OIL FROM TWO MAJOR OIL SPILLS: ROLE OF MICROBIAL DEGRADATION IN REMOVING OIL FROM THE AMOCO-CADIZ AND IXTOC-1 SPILLS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY ENVIRON INT 5 (1) P. 33-8 1981

0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSOPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

0802 WARD,D.M., ATLAS,R.M., BOEHM,P.D., CALDER,J.A. MICROBIAL BIODEGRADATION AND CHEMICAL EVOLUTION OF OIL FROM THE AMOCO-CADIZ SPILL $ MONT STATE UNIV BOZEMAN AMBIO 9 (6) P. 277-283 1980

ATMOSPHERE
0029 ARIEL,N.Z., BYUTNER,E.K., BORTKOVSKII,R.S., STROKINA,L.A. INFLUENCE OF OIL FILM POLLUTION OF THE OCEAN ON OXYGEN EXCHANGE WITH THE ATMOSPHERE $ SOV METEOROL HYDROL (2) P. 47-54 1979

0481 MAGUTI,R.J., BASS,R.L. III, MORROW,T.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

0897 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

ATMOSPHERES

0224 DOWTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

ATMOSPHERIC

0540 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. REPORT TO THE CONGRESS ON OCEAN POLLUTION AND OFFSHORE DEVELOPMENT OCTOBER 1977 THROUGH SEPTEMBER 1978 $ PB-81-118333 94P. 1980

0541 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-130008 781P. 1978

0542 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME II RECEPTORS BIRDS $ PB-80-130016 964P. 1978

0543 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME III RECEPTORS BIRDS $ PB-80-130024 912P. 1978

0544 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130032 734P. 1978

0545 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME V RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130040 377P. 1978

0546 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VI RECEPTORS MICROBIOLOGY $ PB-80-130057 502P. 1978

0547 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VII EFFECTS $ PB-80-130065 761P. 1978

0548 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VIII CONTAINMENT BASELINES $ PB-80-130073 628P. 1978

0549 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME X TRANSPORT $ PB-80-130099 933P. 1978

0550 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XI HAZARDS $ PB-80-130107 693P. 1978

0551 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XII HAZARDS $ PB-80-130115 626P. 1978

ATMOSPHERIC
0654 PROVOST,L.P., WETHEROLD,R.G., HARRIS,G.E., HOOPER,M.W., PHILLIPS,W.R. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 4 APPENDICES C, D AND E $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-103830 529P. 1980

0718 SHINN,J.H., CEDERWALL,R.T. SELECTING OPTIMUM PERIODS FOR ATMOSPHERIC DISPERSION TESTS OVER WATER SURFACES AT FRENCHMAN FLAT NEVADA TEST SITE $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 12P. 1981

0808 WETHEROLD,R.G., ROSEBROOK,D.D. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 1 TECHNICAL REPORT $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-80-225253 482P. 1980

0938 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO HAZARDOUS MATERIALS RESPONSE PROJECT: PROGRAM PLAN $ PB82-193046 33P. 1981

1128 EYRES,A.R. GUIDELINES FOR THE DETERMINATION OF ATMOSPHERIC CONCENTRATIONS OF OIL MISTS $ CONCAWE 1981

ATOMIC-ABSORPTION
1106 CHIANG,S.Y.H. APPLICATION OF FLAME AND FLAMELESS ATOMIC-ABSORPTION METHODS TO THE "FINGERPRINTING" OF SPILLS ON WATER MEDIA OF NON-DISTILLATE PETROLEUM OILS $ CONCORDIA UNIVERSITY MONTREAL QUEBEC CANADA 1980

ATWOOD,D.K
0034 ATWOOD,D.K. PROCEEDINGS OF A SYMPOSIUM ON PRELIMINARY RESULTS FROM THE SEPTEMBER 1979 RESEARCHER/PIERCE IXTOC-I CRUISE HELD AT KEY BISCAYNE FLORIDA ON JUNE 9-10 1980 $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-81-246068 533P. 1980

0838 ATWOOD,D.K., FERGUSON,R.L. AN EXAMPLE STUDY OF THE WEATHERING OF SPILLED PETROLEUM IN A TROPICAL MARINE ENVIRONMENT IXTOC-1 $ NOAA ATLANT OCEANOG AND METEOROL LABS RICKENBACKER CAUSEWAY MIAMI FL BULLETIN OF MARINE SCIENCE 32 (1) P. 1-13 1982

AUDUNSON,T
0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KROGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

AUGENFELD,J.M
0036 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATION ON SEDIMENT WORKING RATES OF ABARENICOLA-PACIFICA $ BATTELLE PACIFIC NW LAB MARINE RES LAB SEQUIM WA MARINE ENVIRONMENTAL RESEARCH 3 (4) P. 307-313 1980

0037 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE OIL IN SEDIMENT ON ABARENICOLA-PACIFICA IN LABORATORY AND FIELD EXPERIMENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1980

AUGENFELD,J.M

0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

AUNE,A.B

0039 AUNE,A.B., VLIETSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS $ PUB: NORTH HOLLAND PUBL CO JAN VAN GALENSTRAAT AMSTERDAM NETH 441P. 1980

AUSTRALIA

0487 MANUELL,R.W. OIL SPILL PREVENTION AND CONTROL IN AUSTRALIA $ ESSO AUST LTD SYDNEY NSW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 293-297 1979

0864 BURNS,K.A., SMITH,J.L. HYDROCARBONS IN VICTORIAN COASTAL ECOSYSTEMS (AUSTRALIA) - CHRONIC PETROLEUM INPUTS TO WESTERN PORT AND PORT-PHILLIP BAYS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (2) P. 129-140 1982

AUTOMATION

0039 AUNE,A.B., VLIETSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS $ PUB: NORTH HOLLAND PUBL CO JAN VAN GALENSTRAAT AMSTERDAM NETH 441P. 1980

AVIATION

0993 VERWEIJ,A. POLLUTION OF THE SOIL BY AVIATION GASOLINE $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON,D.C. 26P. 1979

AWAD,H

0040 AWAD,H. COMPARATIVE STUDIES ON ANALYTICAL METHODS FOR THE ASSESSMENT OF PETROLEUM CONTAMINATION IN THE MARINE ENVIRONMENT II GAS-CHROMATOGRAPHIC ANALYSES $ FAC SCI UNIV ALEXANDRIA ALEXANDRIA EGYPT MAR CHEM 10 (5) P. 417-30 1981

AXIAK,V

0041 AXIAK,V., SALIBA,L.J. EFFECTS OF SURFACE AND SUNKEN CRUDE-OIL ON THE BEHAVIOR OF A SEA-URCHIN $ UNIV MALTA DEPT MATH AND SCI TAL MALTA MARINE POLLUTION BULLETIN 12 (1) P. 14-19 1981

B.C

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ TERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

BABIO,C.R

0157 CABIOCH,L., DAUVIN,J.C., BERMUDEZ,J.M., BABIO,C.R. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SUBLITTURAL BENTHOS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 192-208 1980

BACKLUND,L

0042 BACKLUND,L. AIRBORNE OIL SPILL SURVEILLANCE SYSTEMS IN SWEDEN $ SWED SPACE CORP SOLNA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 305-311 1979

BACKSCATTER

0359 HOGE,F.E., SWIFT,R.N. OIL FILM THICKNESS MEASUREMENT USING AIRBORNE LASER INDUCED WATER RAMAN BACKSCATTER $ NASA WALLOPS FLIGHT CENT WALLOPS ISL VA APPL OPT 19 (19) P. 3269-3281 1980

BACTERIA

0478 MACCUBBIN,A.E., KATOR,H. DISTRIBUTION ABUNDANCE AND PETROLEUM DEGRADING POTENTIAL OF MARINE BACTERIA FROM MIDDLE ATLANTIC CONTINENTAL SHELF WATERS $ VIRGINIA INST MARINE SCI DEPT MICROBIOL PATHOL GLOUCESTER POINT VA IN: BOURQUIN,A.W., PRITCHARD,P.H. PROCEEDINGS OF THE WORKSHOP: MICROBIAL DEGRADATION OF POLLUTANTS IN MARINE ENVIRONMENTS P. 380-395 1979

0775 TRACY,K.D., ZITRIDES,T.G. MUTANT BACTERIA AID EXXON WASTE SYSTEM $ ENVIRON DYN INC GREENVILLE SC HYDROCARBON PROCESS 59 (10) P. 95-98 1979

0878 DEVEREUX,R., SIZEMORE,R.K. PLASMID INCIDENCE IN MARINE BACTERIA ISOLATED FROM PETROLEUM POLLUTED SITES ON DIFFERENT PETROLEUM HYDROCARBONS $ UNIV N CAROLINA DEPT BIOL WILMINGTON NC MARINE POLLUTION BULLETIN 13 (6) P. 198-202 1982

0909 HENSON,J.M., HAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

BACTERIAL

0050 BALLERINI,D., KAISER,P., RIVIERE,J. QUANTITATIVE AND QUALITATIVE DEVELOPMENT OF SOME BACTERIAL FUNCTIONAL GROUPS IN SEDIMENTS POLLUTED BY OIL SPILLS $ INST FRANCAIS PETROLE RUEIL MALMAISON FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 269-77 1981

0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

0652 POPP,W. CONCERNING THE BACTERIAL TOXICITY OF MINERAL OIL FRACTIONS AND HYDRO-CARBONS $ BAYER LANDESANSTALT F WASSERFORSCH MUENCHEN GER 0 (0) P. 301-312 1978

0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192429 63P. 1980

BACTERIAL
0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ALTES COLLOQ INT P. 415-28 1979

1024 BUNCH,J.N., HARLAND,R.C., LALIBERTE,J. MICROBIOLOGY 1 EFFECTS OF OIL ON BACTERIAL ACTIVITY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-5 OTTAWA ONTARIO 1981

BACTERIOLOGY
0727 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME III BACTERIOLOGY OF A GULF OF MEXICO GAS AND OIL FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192189 54P. 1980

BAFFIN-BAY
0448 LEVY,E.M. BACKGROUND LEVELS OF PETROLEUM RESIDUES IN BAFFIN-BAY AND THE EASTERN CANADIAN-ARCTIC ROLE OF NATURAL SEEPAGE $ FISHERIES AND OCEANS CANADA BEDFORD INST OCEANOG ATLANTIC OCEANOG LAB DARTMOUTH NS CANADA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 345-362 1981

BAGNULO,L
0043 BAGNULO,L. RECOVERY SYSTEMS FOR DISPERSED OIL PRODUCTS $ SOC REMCO ITALY AES 2 (2) P. 53-5 1980

BAHLOUL,S.K
0044 BAHLOUL,S.K., DONATELLI,A.A., BANNISTER,W.W. GELLANTS FOR CONTROL OF PETROLEUM SPILLS ON WATER $ UNIV OF LOWELL MASS IND ENG CHEM PROD RES DEV 18 (4) P. 364-367 1979

BAIRD,A.V
0655 PSARAFTIS,H., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ MIT CAMBRIDGE MASS OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 407-414 1980

0656 PSARAFTIS,H.N., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-223109 9P. 1980

BAIRD,R
0340 HAUSER,J.N., BAIRD,R. SYSTEM TO PREDICT OFFSHORE DRILLING HAZARDS $ ODUM OFFSHORE SURV INC BATON ROUGE LA PET ENG INT 51 (8) P. 46, 50, 52, 56 1979

BAJNOCZY,G
0045 BAJNOCZY,G., KASA,I. SPECTROFLUOROMETRIC DETERMINATION OF PETROLEUM IN DRINKING WATER $ TECH UNIV BUDAPEST HUNG PERIOD POLYTECH CHEM ENG 24 (1) P. 29-33 1980

BAKEMAN,P.E
0046 BAKEMAN,P.E. JR., ARMSTRONG,A.L. SYSTEMS APPROACH TO BEACH PROTECTION FOR OIL SPILL INCIDENTS PHASE I. FEASIBILITY STUDY $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OHIO PB-80-198997 56P. 1975

BAKER,J.M
0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., ROWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD COUNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

BAKER,J.R
0047 BAKER,J.R., JONES,A.M., JONES,T.P., WATSON,M.C. OTTER LUTRA-LUTRA L MORTALITY AND MARINE OIL POLLUTION $ DEPT VET PATHOL VET FIELD STN WIRRAL CHESHIRE ENGLAND BIOLOGICAL CONSERVATION 20 (4) P. 311-321 1981

BAKKE,T
0048 BAKKE,T., JOHNSEN,T.M. RESPONSE OF A SUBTIDAL SEDIMENT COMMUNITY TO LOW LEVELS OF OIL HYDROCARBONS IN A NORWEGIAN FJORD $ INST OF MAR RES NORDNES-BERGEN NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 633-639 1979

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

BALANCE
0025 ANON. ENERGY IN THE BALANCE SOME PAPERS FROM BA79: PAPERS GIVEN AT THE ANNUAL MEETING OF THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE 1979 $ BR ASSOC FOR THE ADV OF SCI ENERGY IN THE BALANCE SOME PAP FROM BA79 234P. 1979

0244 ENGELHARDT,F.R., WONG,M.P., DUEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

BALARD,H
0963 PAPIRER,E., BOURGEOIS,C., SIFFERT,B., BALARD,H. CHEMICAL NATURE AND WATER OIL EMULSIFYING PROPERTIES OF ASPHALTENES $ CTR RECH PHYS CHIM SURFACES SOLIDES MULHOUSE FRANCE FUEL 61 (8) P. 732-734 1982

BALDASSARRI,L.T
0771 PITTARELLI,P., BALDASSARRI,L.T., ZERLIA,T. IDENTIFICATION OF SPILLED CRUDE-OILS BY VAPORPHASE ULTRAVIOLET-ABSORPTION-SPECTROMETRY $ STAZ SPERIMENTALE COMBUSTIBILI,VIALE A DE GASPERI SAN DONATO MILANE ITALY ANALYTICAL CHEMISTRY 53 (11) P. 1706-1708 1981

BALLAST

0476 LYSYJ,I., RUSHWORTH,R., MELVOLD,R., FARLOW,J. EFFECTIVENESS OF A LARGE-SCALE BALLAST TREATMENT PROCESS $ ROCKWELL INT NEWBURY PARK CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 133-137 1979

0477 LYSYJ,I. TREATMENT EFFECTIVENESS: OIL TANKER BALLAST WATER FACILITY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101361 189P. 1981

BALLERINI,D

0049 BALLERINI,D., VANDECASTEELE,J.P. BIODEGRADATION OF CRUDE-OIL IN A MARINE-ENVIRONMENT GENERAL METHODOLOGY $ INST FRANCAIS PETR F-92502 RUEIL MALMAISON FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 12P. 1980

0050 BALLERINI,D., KAISER,P., RIVIERE,J. QUANTITATIVE AND QUALITATIVE DEVELOPMENT OF SOME BACTERIAL FUNCTIONAL GROUPS IN SEDIMENTS POLLUTED BY OIL SPILLS $ INST FRANCAIS PETROLE RUEIL MALMAISON FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 269-77 1981

BALOGH,I.K

0932 MESZAROS,M.H., JENEI,M.H., BALOGH,I.K. EFFECT OF WATER POLLUTED WITH OIL UPON BEAN-PLANTS $ JOZSEF ATTILA TUDOMANYEGYETEM SZEGED HUNGARY BOTANIKAI KOZLEMENYEK-BOTANICAL PUBLICATIONS 67 (4) P. 279-283 1980

BALTIC

0454 LINDEN,C., ELMGREN,R., BOEHM,P. TSESIS OIL SPILL: ITS IMPACT ON THE COASTAL ECOSYSTEM OF THE BALTIC SEA $ SWED WATER AND AIR POLLUT RES INST NYKOPING AMBIO 8 (6) P. 244-253 1979

0668 RICH,V. BALTIC OIL POLLUTION FINNS FIGHT SPILL $ NATURE 287 (5784) P. 673 1980

BANNISTER,W.W

0044 BAHLOUL,S.K., DONATELLI,A.A., BANNISTER,W.W. GELLANTS FOR CONTROL OF PETROLEUM SPILLS ON WATER $ UNIV OF LOWELL MASS IND ENG CHEM PROD RES DEV 18 (4) P. 364-367 1979

0051 BANNISTER,W.W., RANCOURT,J.D., CURBY,W.A. AMINE-CARBAMATE GELLING-AGENTS FOR FACILITATING OIL SPILL RECOVERY AND CONTROL $ DEP CHEM UNIV LOWELL LOWELL MA MAR TECHNOL SO (EIGHTY) ANNU CONF MAR TECHNOL SOC 16TH P. 146-9 1980

BANTRY-BAY

0533 MYERS,A.A., SOUTHGATE,T., CROSS,T.F. DISTINGUISHING THE EFFECTS OF OIL POLLUTION FROM NATURAL CYCLICAL PHENOMENA ON THE BIOTA OF BANTRY-BAY IRELAND $ NATL UNIV IRELAND UNIV COLL CORK DEPT ZOOL CORK IRELAND MARINE POLLUTION BULLETIN 11 (7) P. 204-207 1980

BARAK,J.E

0093 BOEHM,P.D., STEINHAUER,W.G., FIEST,D.L., ROSEMAN,N., BARAK,J.E., PERRY,G.H. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON POLLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMBRIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

BARAK,J.E
0849 BOEHM,P.D., BARAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

BARGE
0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

0587 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, BARGE PANAMA-CITY GOOD HOPE LOUISIANA AUGUST 30 1979 $ PB-80-200850 45P. 1980 D.C. MARINE ACCIDENT REPORT: COLLISION OF PERUVIAN FREIGHTER M/V INCA-TUPAC-YUPANGUI AND US BUTANE

0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

0695 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S. LONG-TERM EFFECTS OF THE BARGE FLORIDA OIL SPILL $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-144792 225P. 1981

0903 GRISWOLD,C.A. THE BARGE OCEAN 250 GASOLINE SPILL $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-176488 38P. 1981

BARGES
0431 KEILLOR,J.P. THE HAZARDS OF TANK SHIPS AND BARGES TRANSPORTING PETROLEUM PRODUCTS ON THE GREAT-LAKES $ UNIV WISCONSIN INST SEA GRANT MADISON WI COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 319-336 1980

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

BARKER,C.D
0052 BARKER,C.D. APPLICATION OF CHEMICAL DISPERSANTS AT SEA $ SOUTH CALIF PET CONTINGENCY ORGAN SAN PEDRO ANNU MEET PAP AM PET INST PROD DEP NEW ORLEANS LA P. A. 1-A. 1979

BARNES,P.W
0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PUAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

BARNES,S.S
0073 BERRYHILL,H.L. JR., SHIDELER,G.L., HOLMES,C.W., BARNES,S.S., HILL,G.W. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975: AN ATLAS AND INTEGRATED SUMMARY $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-217763 325P. 1977

BARRIE,W.B
1026 MCLAREN,P., BARRIE,W.B., SEMPELS,J.M. GEOMORPHOLOGY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-7 OTTAWA ONTARIO 1981

BARRIENTOS,C.S
0404 KERR,C.L., BARRIENTOS,C.S. WORKSHOP ON THE PHYSICAL BEHAVIOR OF OIL IN THE MARINE ENVIRONMENT HELD AT PRINCETON UNIVERSITY PRINCETON NEW JERSEY ON MAY 8-9 1979 $ NATIONAL WEATHER SERVICE SILVER SPRING MD PB-81-123796 386P. 1979

BARRIER
0451 LICHTE,H.W. SKIMMING BARRIER PERFORMANCE EVALUATION: OFFSHORE VERSION AND HARBOR VERSION $ MASON AND HANGER-SILAS MASON CO LEONARDO NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 489-492 1979

0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

BARRIERS
0427 LAU,Y.L., ENGEL,P. CONTROL OF OIL SLICKS IN FLOWING WATER USING AIR BUBBLE BARRIERS $ NATL WATER RES INST DIV HYDRAUL RES BURLINGTON ONTARIO CANADA CANADIAN JOURNAL OF CIVIL ENGINEERING 7 (2) P. 397-405 1980

1012 ROBERTSON,L.A. OIL SPILL BARRIERS AND THEIR USE $ ENVIRONMENTAL PROTECTION REPORT # EPS-3-EC-81-5 OTTAWA ONTARIO 1981

BARSDATE,R.J
0054 BARSDATE,R.J., MILLER,M.C., ALEXANDER,V., VESTAL,J.R., HOBBIE,J.E. OIL SPILL EFFECTS (ON TUNDRA POND LIMNOLOGY) $ INST MAR SCI UNIV ALASKA FAIRBANKS AK US/IBP SYNTH SER 13 (LIMNOL TUNDRA PONDS: BARROW ALASKA) P. 388-406, 457-91 1980

BARTA,W.D
0900 GREENLEY,W.B., BARTA,W.D., EDDINGER,R.T. LITERATURE REVIEW OF TOXICOLOGICAL PROPERTIES OF PETROLEUM AND COAL-DERIVED OIL PRODUCTS $ UNIV DELAWARE NEWARK DE FUEL PROCESSING TECHNOLOGY 6 (1) P. 9-25 1982

BARTON,D.R
0470 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

BARTON,D.R

0471 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

BASE-LINE

0096 BUTELLO,A.V., CASTRO,S.A. BASE-LINE STUDIES FOR HYDROCARBONS AND ORGANIC-CARBON ISOTOPE RATIOS OF RECENT SEDIMENTS IN THE BANK OF CAMPECHE BEFORE THE IXTOC-1 OIL-SPILL $ NATL AUTONUMOUS UNIV MEXICO CTR CIENCIAS MAR AND LIMNOL MEXICO CITY ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 35P. 1980

BASELINE

0129 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166093 577P. 1979

0130 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 2 REPORT 18-24 $ PB-80-166101 720P. 1979

0131 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166127 795P. 1979

0132 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 2 REPORTS 18-24 $ PB-80-166135 647P. 1979

0709 SCIENCE APPLICATIONS INC LA-JOLLA CA SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME III METHODOLOGY REPORTS $ PB-80-166119 237P. 1979

BASELINES

0140 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME V RECEPTORS MICROBIOLOGY CONTAMINANT BASELINES $ PB-80-186851 703P. 1979

0148 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME III: EFFECTS AND CONTAMINANT BASELINES $ PB-81-196289 359P. 1980

BASELINES
0548 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VIII CONTAINMENT BASELINES $ PB-80-130073 628P. 1978

BASIN
0978 SHEVELEVA,T.V., KROPOTKIN,M.A., LEUS,N.B. METHOD OF MEASURING THE THICKNESS OF AN OIL FILM ON A WATER BASIN $ SOV METEOROL HYDROL (3) P. 72-74 1980

BASS,R.L
0481 MAGUTT,R.J., BASS,R.L. III, MORROW,T.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

BASTIAN,D.F
0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

BATTERSHILL,C.N
0839 BATTERSHILL,C.N., BERGQUIST,P.R. RESPONSES OF AN INTER-TIDAL GASTROPOD TO FIELD EXPOSURE OF AN OIL AND A DISPERSANT $ UNIV AUCKLAND DEPT ZOOL AUCKLAND NEW ZEALAND MARINE POLLUTION BULLETIN 13 (5) P. 159-162 1982

BAUGHMAN,G.L
1065 WOLFE,N.L., PARIS,D.F., STEEN,W.C., BAUGHMAN,G.L. CORRELATION OF MICROBIAL DEGRADATION RATES WITH CHEMICAL STRUCTURE $ AMERICAN CHEMICAL SOCIETY 14 (9) P. 1143-1144 1980

BAY
0447 LEVENTHAL,F.D. THE BAY OF CAMPECHE OIL SPILL OBTAINING JURISDICTION OVER PETROLEOS-MEXICANOS UNDER THE FOREIGN SOVEREIGN IMMUNITIES ACT OF 1976 $ UNIV CALIF BERKELEY SCH LAW BERKELEY CA ECOLOGY LAW QUARTERLY 9 (2) P. 341-377 1981

0623 URDZIK,C.J., GARUFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

0851 BOEHM,P.D., FLEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-I BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LMW HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

BAY

0876 DAUVIN,J.C. IMPACT OF AMOCO-CADIZ OIL SPILL ON THE MUDDY FINE SAND ABRA-ALBA AND MELINNA-PALMATA COMMUNITY FROM THE BAY OF MORLAIX $ STN BIOL ROSCOFF FRANCE ESTUARINE COASTAL AND SHELF SCIENCE 14 (5) P. 517-531 1982

0991 IDPGI,K.S., MORUNHA,R.J., PONDEKAR,S.P., SENGUPTA,R. DISSOLVED PETROLEUM HYDROCARBONS ALONG THE OIL TANKER ROUTE IN THE SOUTHERN BAY OF BENGAL $ NATL INST OCEANOG DONA PAULA DAMAN AND DIU INDIA INDIAN JOURNAL OF MARINE SCIENCES 11 (2) P. 175-176 1982

BAY-OF-FUNDY

0133 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME 1 BOOK 3 CHAPTERS XV-XX $ PB-80-177488 990P. 1977

0134 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME II MASTER BIBLIOGRAPHY INDEX ACKNOWLEDGEMENTS $ PB-80-177496 516P. 1977

0135 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME III APPENDIX A, B.AND C $ PB-80-177504 511P. 1977

BAYNE,B.L

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

BAYS

0864 BURNS,K.A., SMITH,J.L. HYDROCARBONS IN VICTORIAN COASTAL ECOSYSTEMS (AUSTRALIA) - CHRONIC PETROLEUM INPUTS TO WESTERN PORT AND PORT-PHILLIP BAYS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (2) P. 129-140 1982

BEACH

0046 BAKEMAN,P.E. JR., ARMSTRONG,A.L. SYSTEMS APPROACH TO BEACH PROTECTION FOR OIL SPILL INCIDENTS PHASE 1. FEASIBILITY STUDY $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OHIO PB-80-198997 56P. 1975

0198 CORTES,A., ALTAMIRANO,J. CHEMICAL EVOLUTION OF HYDROCARBONS IN WEATHERED BEACH OIL SAMPLES AFTER THE IXTOC-1 ACCIDENT $ INST MEXICANO PETR DIV ANALYT MEXICO CITY MEXICO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 10P. 1980

0203 CROQUETTE,J., GATELLIER,C. USE OF BEACH CLEANING- AGENTS AND THEIR EFFECTS ON OIL SPILLS $ CEDRE BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACID HYDROCARBURES ACTES COLLOQ INT P. 821-36 1979

BEACH
0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

1008 HARDY ASSOCIATES (1978) LTD PRELIMINARY ASSESSMENT OF CERTAIN BEACH CLEANUP TECHNIQUES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-1 OTTAWA ONTARIO 1981

BEACH,R.L
0055 BEACH,R.L. STATE OF THE ART IN HIGH SEA-STATE OIL POLLUTION RESPONSE CAPABILITIES $ SEAWARD INT INC FALLS CHURCH VA ENVIRON INT 3 (2) P. 171-176 1980

BEACHES
0278 FRICKE,A.H., HENNIG,H., ORREN,M.J. RELATIONSHIP BETWEEN OIL POLLUTION AND PSAMMOLITTORAL MEIOFAUNA DENSITY OF 2 SOUTH-AFRICAN BEACHES $ UNIV CAPE TOWN DEPT OF OCEANOG NATL RES INST OCEANOL RONDEBOSCH SOUTH AFRICA MARINE ENVIRONMENTAL RESEARCH 5 (1) P. 59-77 1981

0508 MCLACHLAN,A., HARTY,B. EFFECTS OF OIL ON WATER FILTRATION BY EXPOSED SANDY BEACHES $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 12 (11) P. 374-378 1981

0751 STRAUGHAN,D. DISTRIBUTION OF TAR AND RELATIONSHIP TO CHANGES IN INTERTIDAL ORGANISMS ON SANDY BEACHES IN SOUTHERN CALIFORNIA $ UNIV OF SOUTH CALIF LOS ANGELES PROC - OIL SPILL CONF LOS ANGELES CALIF P. 591-601 1979

1037 BROWN,W.J., DENHAM,F.R. AN ECONOMIC EVALUATION OF A MOBILE ROTARY-KILN DESIGNED FOR THE CLEANUP OF OIL CONTAMINATED BEACHES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-10 OTTAWA ONTARIO 1980

BEAN-PLANTS
0932 MESZAROS,M.H., JENEI,M.H., BALOGH,I.K. EFFECT OF WATER POLLUTED WITH OIL UPON BEAN-PLANTS $ JOZSEF ATTILA TUDOMANYEGYETEM SZEGED HUNGARY BOTANIKAI KOZLEMENYEK-BOTANICAL PUBLICATIONS 67 (4) P. 279-283 1980

BEAN,R.M
0056 BEAN,R.M., BLAYLOCK,J.W., RILEY,R.G. APPLICATION OF TRACE ANALYTICAL TECHNIQUES TO A STUDY OF HYDROCARBON COMPOSITION UPON DISPERSION OF PETROLEUM IN A FLOWING SEAWATER SYSTEM $ BATTELLE MEM INST PACIFIC NW LABS BATTELLE BLVD RICHLAND WA IN: PETRAKIS,L., WEISS,F.T. PETROLEUM IN THE MARINE ENVIRONMENT 185 P. 235-246 1980

0672 RILEY,R.G., THOMAS,B.L., ANDERSON,J.W., BEAN,R.M. CHANGES IN THE VOLATILE HYDROCARBON CONTENT OF PRUDHOE-BAY CRUDE-OIL TREATED UNDER DIFFERENT SIMULATED WEATHERING CONDITIONS $ BATTELLE PAC NORTHWEST LAB RICHLAND WA MAR ENVIRON RES 4 (2) P. 109-19 1980

BEAUFORT
0305 GIRALT,F., MEDIR,M., MACKAY,D. OIL CONTAMINATION OF THE MEDITERRANEAN AND BEAUFORT SEAS TO CURE TO PREVENT OR TO NEGLECT $ UNIV BARCELONA FAC QUIM TARRAGONA DEPT QUIM TECN TARRAGONA SPAIN AFINIDAD 38 (373) P. 215-219 1981

0934 MILLER,S. ALASKAN USA BEAUFORT SEA COASTLINE SENSITIVITY ANALYSIS AND OIL SPILL RESPONSE MANUAL $ SOHIO ALASKAN PETROLEUM CO ANCHORAGE ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 173-175 1981

1133 ANONYMOUS THE BEAUFORT PLANNING MODEL $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1982

BEAUFORT-SEA
0608 NUMMEDAL,D., RUBY,C.H. SPILLED OIL RETENTION POTENTIAL BEAUFORT-SEA COAST OF ALASKA $ LOUISIANA STATE UNIV MED CTR DEPT GEOL NEW ORLEANS LA IN: NORWEGIAN INST TECHNOL POAC 79: THE FIFTH INTERNATIONAL CONF ON PORT AND ENG 3 P. 247-253 19

0674 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

0823 WRIGHT,D.G. PLAN FOR SCIENTIFIC RESPONSE TO AN OIL SPILL IN THE BEAUFORT-SEA $ FISH AND ENVIRON CAN WINNIPEG MANIT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 525-532 1979

BEAUFORT-SEA-MACKENZIE-DELTA
1132 ANONYMOUS BEAUFORT-SEA-MACKENZIE-DELTA ENVIRONMENTAL IMPACT STATEMENT STATUS REPORT $ ENVIRONMENT CANADA 1982

BECCASIO,A.D
0057 BECCASIO,A.D., WEISSBERG,G.H., REDFIELD,A.E., FREW,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

BECK,D.A
0058 BECK,D.A., MOELLER,P.J. IMPLEMENTATION OF THE OFFSHORE OIL POLLUTION FUND $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 11-15 1979

BECK,K
0059 BECK,K., ABOBA,B., MILLER,D., KAKLINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

BECKER,G
0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSOPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

BEDINGER,C.A
0840 BEDINGER,C.A., NULTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-1 BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV S HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

BEDOUELLE,H
0347 HERMANN,M., CHAUDE,O., NEILL,N., BEDOUELLE,H., HOFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

BEEBE,J
0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

BEECH,F.G
1121 BEECH,F.G., BETTS,D.A., HUM,S., POND,S.G. WEST COAST OIL SPILL COUNTERMEASURES STUDY YEAR II $ ENVIRONMENTAL PROTECTION SERVICE PACIFIC COAST REGION 1982

BEGGS,H.D
0527 MUKHERJEE,H., BRILL,J.P., BEGGS,H.D. EXPERIMENTAL STUDY OF OIL WATER FLOW IN INCLINED PIPES $ JOHNSTON MACCO SCHLUMBERGER SUGERLAND TX JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME 103 (1) P. 56-66 1981

BEHAVIOR
0041 AXIAK,V., SALIBA,L.J. EFFECTS OF SURFACE AND SUNKEN CRUDE-OIL ON THE BEHAVIOR OF A SEA-URCHIN $ UNIV MALTA DEPT MATH AND SCI TAL MALTA MARINE POLLUTION BULLETIN 12 (1) P. 14-19 1981

0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE COPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

0165 CARSIN,M.J.L. THE AMOCO-CADIZ OIL SPILL: BEHAVIOR OF HER HYDROCARBONS IN THE MARINE ENVIRONMENT $ ETABL PRINC SERV HYDROG OCEANOGR MAR PARIS FR ANN HYDROGR 754 P. 19-43 1980

0190 CONNELL,D.W., MILLER,G.J. PETROLEUM HYDROCARBONS IN AQUATIC ECOSYSTEMS BEHAVIOR AND EFFECTS OF SUBLETHAL CONCENTRATIONS 1 $ GRIFFITH UNIV QUEENS LAND AUSTRALIA CRIT REV ENVIRON CONTROL 11 (1) P. 37-104 1981

0404 KERR,C.L., BARRIENTOS,C.S. WORKSHOP ON THE PHYSICAL BEHAVIOR OF OIL IN THE MARINE ENVIRONMENT HELD AT PRINCETON UNIVERSITY PRINCETON NEW JERSEY ON MAY 8-9 1979 $ NATIONAL WEATHER SERVICE SILVER SPRING MD PB-81-123796 386P. 1979

BEHAVIOR

0435 LEE,W.H. BEHAVIOR OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT PRINCE-WILLIAM-SOUND ALASKA $ LOS ALAMOS NATL LAB LOS ALAMOS NM TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY 38 P. 101-102 1981

0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TEORICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

0474 LUDWIGSON,J.O. (ED) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1979 $ PROC - OIL SPILL CONF LOS ANGELES CALIF 728P. 1979

0479 MACKAY,D., WATSON,A., NG,C., MADEAU,S. BEHAVIOR AND EFFECTIVENESS OF DISPERSANTS AT SEA AND AT SHORELINES $ UNIV OF TORONTO ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 447-452 1979

0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.N. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

0618 ULLA,B.L., PEARSON,W.H., SUGARMAN,P.C., WOODRUFF,D.L., BLAYLOCK,J.W. THE EFFECTS OF PETROLEUM HYDROCARBONS ON CHEMORECEPTION AND BEHAVIOR IN THE DUNGENESS-CRAB *CANCER-MAGISTER* $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-82-116716 83P. 1981

0837 ATEMA,J., KARNOFSKY,E.B., OLESZKO-SZUTS,S., BRYANT,B. LOBSTER BEHAVIOR AND CHEMORECEPTION: SUBLETHAL EFFECTS OF NUMBER-2-FUEL-OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-192444 71P. 1982

0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

0890 FULMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HODGINS,H.O. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 459-462 1981

0893 FREE,A.P., COX,J.C., SCHULTZ,L.A. LABORATORY STUDIES OF OIL SPILL BEHAVIOR IN BROKEN ICE FIELDS $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A114-178/7 63P. 1981

0896 GEARING,P.J., GEARING,J.N. BEHAVIOR OF NO-2-FUEL-OIL IN THE WATER COLUMN OF CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 115-132 1982

BEHAVIOR
0961 DRMOND,R.F.G., CALDWELL,S. THE EFFECT OF OIL POLLUTION ON THE REPRODUCTION AND FEEDING BEHAVIOR OF THE SEA-ANEMONE ACTINIA-EQUINA $ UNIV YORK DEPT BIOL YORK N YORKSHIRE ENGLAND MARINE POLLUTION BULLETIN 13 (4) P. 118-122 1982

0962 DVIATT,C., FRITHSEN,J., GEARING,J., GEARING,P. LON CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

0964 PARROTTE,R.B. (ED.) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1981 $ PROC - 1981 OIL SPILL CONF (PREV BEHAV CONTROL CLEANUP) ATLANTA GA 742P. 1981

BEHAVIOUR
1019 COMFORT,G., PURVES,W. THE BEHAVIOUR OF CRUDE-OIL SPILLED UNDER MULTI-YEAR ICE $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-4 OTTAWA ONTARIO 1982

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1980

1034 MACKAY,D., PATERSON,S., TRUDEL,K. A MATHEMATICAL MODEL OF OIL SPILL BEHAVIOUR $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-7 OTTAWA ONTARIO 1980

1043 DUVAL,W.S., FINK,R.P. THE SUBLETHAL EFFECTS OF WATER-SOLUBLE HYDROCARBONS ON THE PHYSIOLOGY AND BEHAVIOUR OF SELECTED MARINE FAUNA $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-16 OTTAWA ONTARIO 1981

BELASH,V.D
0060 BELASH,V.D., FEDOTOV,M.N. FORMATION OF LOCAL EXPLOSION HAZARDOUS PROPANE-AIR MIXTURES $ LENINGR FILIAL USES NAUCHNO-ISSLED INST PROTIVOPOZHARNO OBORONY LENINGRAD GAZOV PROM-ST (8) P. 55-7 1980

BELEN,M.S
0444 LEHR,W.J., BELEN,M.S., CEKIRGE,H.M. SIMULATED OIL SPILLS AT 2 OFFSHORE FIELDS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV RES INST DIV WATER AND ENVIRON DHAHRAN SAUDI ARABIA MARINE POLLUTION BULLETIN 12 (11) P. 371-374 1981

BELKEVICH,P.I
0061 BELKEVICH,P.I., KOVZUN,A.A., SOBOL,M.I., CHRISTOVA,L.R. ORGANOPHILIC-PEAT SORBENT FOR REMOVING OILS AND PETROLEUM PRODUCTS FROM WASTEWATERS $ ACAD SCI BESSR INST PEAT MINSK BESSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (11) P. 1796-1799 1980

BELLANTONI,J.F

0062 BELLANTONI,J.F. A STUDY OF OIL SPILL RATES IN FOUR US COASTAL REGIONS $ COAST GUARD WASHINGTON, D.C. AD-A103-430/5 151P. 1980

BELLIER,P

0063 BELLIER,P. POLLUTION CONTROL IN FRANCE $ (LA LUTTE CONTRE LA POLLUTION EN FRANCE) CENT DE DOC DE RECH D'EXP SUR LES POLLUT ACCID DES EAUX REV INST FR PET 35 (6) P. 981-992 1980

0064 BELLIER,P., MASSART,G. AMOCO-CADIZ OIL-SPILL CLEANUP OPERATIONS AN OVERVIEW OF THE ORGANIZATION CONTROL AND EVALUATION OF THE CLEANUP TECHNIQUES EMPLOYED $ CEDRE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 141-146 1979

BELOIVANENKO,V.I

0065 BELOIVANENKO,V.I., MIRONOV,O.G. EFFECT OF OIL POLLUTANTS ON THE RATE OF OXYGEN PENETRATION INTO WATER $ WATER RESOUR 6 (6) P. 882-885 1979

BELOUS,A.R

0066 BELOUS,A.R., NOVIKOV,V.I., IZOTOV,V.I. DETERMINATION OF TEL CONTENT IN GASOLINES BY GAMMA-ABSORPTION METHOD $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 913-914 1979

BELSKY,J

0841 BELSKY,J. DIESEL OIL SPILL IN A SUBALPINE MEADOW 9 YEARS OF RECOVERY $ SYRACUSE UNIV DEPT BIOL SYRACUSE NY CANADIAN JOURNAL OF BOTANY 60 (6) P. 906-910 1982

BEND,J.R

0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,J.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

BENDER,M.E

0967 BENDER,M.E., SHEARLS,E.A., HUGGETT,R.J., MURRAY,L. ECOLOGICAL EFFECTS OF EXPERIMENTAL OIL SPILLS IN EASTERN COASTAL PLAIN ESTUARIES $ VA INST OF MAR SCI GLOUCESTER POINT ENVIRON INT 3 (2) P. 121-133 1980

BENDERSKII,V.A

0086 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SOKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

BENES1,6

0970 RAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., REUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

BENNEK,K.E

0171 CHANG,K.K., BENNER,R.E. LASER-RAMAN POINT MONITORING OF METHANE VAPOR IN THE LNG STORAGE FIELD $ DEP ENG APPL SCI YALE UNIV NEW HAVEN CT PB-80-205347 39P. 1979

BENIA,A.P

0017 ANDERSON,C.P., KILLEEN,T.J., TAFT,J.B., BENIA,A.P. IMPROVED IDENTIFICATION OF SPILLED OILS BY INFRARED-SPECTROSCOPY $ UNIV OF CONN GROTON ENVIRON SCI TECHNOL 14 (10) P. 1230-1234 1980

BENTHIC

0129 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166093 577P. 1979

0130 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 2 REPORT 18-24 $ PB-80-166101 720P. 1979

0131 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166127 795P. 1979

0132 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 2 REPORTS 18-24 $ PB-80-166135 647P. 1979

0213 DENHARTOG,C., JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON AN EELGRASS COMMUNITY AT ROSCOFF (FRANCE) WITH SPECIAL REFERENCE TO THE MOBILE BENTHIC FAUNA $ CATHOLIC UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 182-191 1980

0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN MERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

0379 JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SEAGRASS COMMUNITY AT ROSCOFF WITH SPECIAL REFERENCE TO THE BENTHIC INFAUNA $ UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS MARINE ECOLOGY-PROGRESS SERIES 2 (3) P. 207-212 1980

0470 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

BENTHIC

0471 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

0633 PAMATMAT,M.M. BENTHIC COMMUNITY METABOLISM ON THE CONTINENTAL SHELF OF THE NORTHERN GULF OF MEXICO $ AUBURN UNIV AL 8P. 1979

0709 SCIENCE APPLICATIONS INC LA-JOLLA CA SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME III METHODOLOGY REPORTS $ PB-80-166119 237P. 1979

0849 BOEHM,P.D., BAKAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

BENTHIC-ANIMAL

0158 CABIOCH,L. POLLUTION OF SUBTIDAL SEDIMENTS AND DISTURBANCE OF BENTHIC-ANIMAL COMMUNITIES $ ROSCOFF BIOL STN FR AMBIO 9 (6) P. 294-296 1980

BENTHOS

0094 KOLSCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALUNGI,D.M., BOWEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 258P. 1981

0138 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME III RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186836 643P. 1979

0139 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF THE YEAR ENDING MARCH 1979 VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186844 669P. 1979

0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

0157 CABIOCH,L., DAUVIN,J.C., BERMUDEZ,J.M., BABIO,C.R. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SUBLITTORAL BENTHOS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 192-208 1980

BENTHOS

0255 FEDER,H.M., PAUL,A.J., MCDONALD,J. A PRELIMINARY SURVEY OF THE BENTHOS OF RESURRECTION-BAY AND AIALIK ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-182991 57P. 1979

0544 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130032 734P. 1978

0545 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME V RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130040 577P. 1978

0610 NYBLADE,C.F. THE STRAIT OF JUAN-DE-FUCA INTERTIDAL AND SUBTIDAL BENTHOS $ WASHINGTON UNIV FRIDAY HARBOR FRIDAY HARBOR LABS PB-80-142136 144P. 1979

BENTZ,A.P

0068 BENTZ,A.P. OIL-SPILL IDENTIFICATION AND REMOTE-SENSING $ US COAST GUARD RES AND DEV CENT GROTON CONN ADV CHEM SER 185 PET IN THE MAR ENVIRON SYMP AT THE MEET OF THE ACS P. 55-86 1980

0069 BENTZ,A.P. OIL-SPILL IDENTIFICATION AND REMOTE-SENSING $ US COAST GUARD RES DEV CENT GROTON CT PREPR DIV PET CHEM AM CHEM SOC 23 (3) P. 916-29 1978

BENVILLE,P.E

0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE DR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

BERGER,J

0676 ROGERSON,A., BERGER,J. THE TOXICITY OF THE DISPERSANT COREXIT-9527 AND OIL DISPERSANT MIXTURES TO CILIATE-PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CHEMOSPHERE 10 (1) P. 33-39 1981

0677 ROGERSON,A., BERGER,J. THE EFFECTS OF COLD TEMPERATURES AND CRUDE-OIL ON THE ABUNDANCE AND ACTIVITY OF PROTOZOA IN A GARDEN SOIL $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CANADIAN JOURNAL OF ZOOLOGY 59 (8) P. 1554-1560 1981

0678 ROGERSON,A., BERGER,J. EFFECT OF CRUDE-OIL AND PETROLEUM DEGRADING MICROORGANISMS ON THE GROWTH OF FRESH-WATER AND SOIL PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO JOURNAL OF GENERAL MICROBIOLOGY 124 P. 53-59 1981

BERGMAN,M.L

0494 MARCUS,M.D., BERGMAN,M.L., STOLLER,D.A., BROWN,S.K., MOLHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

BERGQUIST,P.R

0839 BATTERSHILL,C.N., BERGQUIST,P.R. RESPONSES OF AN INTER-TIDAL GASTROPOD TO FIELD EXPOSURE OF AN OIL AND A DISPERSANT $ UNIV AUCKLAND DEPT ZOOL AUCKLAND NEW ZEALAND MARINE POLLUTION BULLETIN 13 (5) P. 159-162 1982

BERING

0891 FURD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

BERMAN,M.S

0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE COPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

BERMUDEZ,J.M

0157 CABIOCH,L., DAUVIN,J.C., BERMUDEZ,J.M., BABIO,C.R. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SUBLITTORAL BENTHOS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 192-208 1980

BERNE,S

0072 BERNE,S., MARCHAND,M., D'OZOUVILLE,L. POLLUTION OF SEA-WATER AND MARINE SEDIMENTS IN COASTAL AREAS $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR AMBIO 9 (6) P. 287-293 1980

0226 DUZOUVILLE,L., BERNE,S., GUNDLACH,E.R., HAYES,M.O. COASTAL MORPHOLOGY AND OIL SPILL POLLUTION THE AMOCO-CADIZ EXPERIENCE $ CTR OCEANOL BRETAGNE F-29273 BREST FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 557-571 1981

BERRYHILL,H.L

0073 BERRYHILL,H.L. JR., SHIDELER,G.L., HOLMES,C.W., BARNES,S.S., HILL,G.W. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975: AN ATLAS AND INTEGRATED SUMMARY $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-217763 325P. 1977

BERTHOU,F

0074 BERTHOU,F., GOURMELON,Y., DREANO,Y., FRIOCOURT,M.P. APPLICATION OF GAS-CHROMATOGRAPHY ON GLASS-CAPILLARY COLUMNS TO THE ANALYSIS OF HYDROCARBON POLLUTANTS FROM THE AMOCO-CADIZ OIL-SPILL $ FAC MED BREST CNRS SERV BIOCHIM CHROMATOG LAB EQUIPE RECH BP BREST FRANCE JOURNAL OF CHROMATOGRAPHY 203 P. 279-292 1981

BERTHOU,F

0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., CUSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

0842 BERTHOU,F., FRIOCOURT,M.P. GAS-CHROMATOGRAPHIC SEPARATION OF DIA-STEREOMERIC-ISOPRENOIDS AS MOLECULAR MARKERS OF OIL POLLUTION $ LAB DE CHROMATOGRAPHIE SERVICE DE BIOCHIM BREST CEDEX FR

BERTRAND,A.R.V

0075 BERTRAND,A.R.V. MAJOR OFFSHORE OIL SPILL ACCIDENTS AND THE TANKER ACCIDENT DATA BANK (1955-1979) OF THE INSTITUT FRANCAIS DU PETROLE $ INST FR DU PET REV INST FR PET 24 (3) P. 483-541 1979

0843 BERTRAND,A.R.V. INSTITUT FRANCAIS DU PETROLE DATABANK ON ACCIDENTAL OIL SPILLS AT SEA (1955-1980) NEW RESULTS $ (LA BANQUE DE DONNEES DE L'INSTITUT FRANCAIS DU PETROLE SUR LES DEVERSEMENTS ACCIDENTELS DE PETROLE EN MER (1955-1980) - NOUVEAUX RESULTATS) INST FR DU PET RUEIL-MALMAISON REV INST FR PET 36 (2) P. 229-239 1981

BESMAI,J.E

0175 CHMIELOWIEC,J., BESMAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN LLOYDMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

BESLIER,A

0076 BESLIER,A., BIRRIEN,J.L., CABIOCH,L., LARSONNEUR,C., LEBURGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

BESPALOVA,E.A

0077 BESPALOVA,E.A., MILITSKIY,V.A., POKROVSKAYA,I.V., MIROVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (10) P. 54-58 1978

BESSLER,D.U

0078 BESSLER,D.U. TREATING EMULSIONS FROM ENHANCED OIL-RECOVERY PROJECTS $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 179 14P. 1980

BETTS,D.A

1121 BEECH,F.G., BETTS,D.A., HUM,S., POND,S.G. WEST COAST OIL SPILL COUNTERMEASURES STUDY YEAR II $ ENVIRONMENTAL PROTECTION SERVICE PACIFIC COAST REGION 1982

BEVAN,J
0660 RANDALL,R.M., RANDALL,B.M., BEVAN,J. OIL POLLUTION AND PENGUINS IS CLEANING JUSTIFIED $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (8) P. 234-237 1980

BEZURUDKU,U.V
0079 BEZURUDKO,O.V., KRUPA,A.A., MEDVEDEV,M.I., PASHCHENKO,A.A., IARASEVICH,Y. APPLICATION OF HYDROPHOBILIZED PERLITE FOR PURIFICATION OF SURFACE WATERS FROM OIL $ ACAD SCI UKSSR INST COLLOID CHEM AND WATER CHEM KIEV UKSSR UKRAINSKII KHIMICHESKII ZHURNAL 46 (1) P. 51-54 1980

BHOSLE,N.B
0080 BHOSLE,N.B., MAVINKURVE,S. HYDROCARBON-UTILISING MICRO-ORGANISMS FROM DONA-PAULA-BAY-GOA $ NATL INST OF OCEANOGR DONA PAULA GOA INDIA MAR ENVIRON RES 4 (1) P. 53-58 1980

BIANCHI,R.A
0081 BIANCHI,R.A. THE ECONOMICS OF OIL SPILLED CLEANUP $ JBF SCI CORP WILMINGTON MA MARINE TECHNOLOGY 18 (4) P. 335-341 1981

BIANCHINI,G.M
0960 O'NEAL,W.C., BIANCHINI,G.M., BLOCKER,K.E., HIPPLE,D.L., HOGAN,W.J. 500-M-EXP-3 SPILL TEST FACILITY FOR LIQUEFIED-GASEOUS-FUELS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 25P. 1981

BIAS-BY-SELECTION
0339 HAUER,E. BIAS-BY-SELECTION: OVERESTIMATION OF THE EFFECTIVENESS OF SAFETY COUNTERMEASURES CAUSED BY THE PROCESS OF SELECTION FOR TREATMENT $ UNIV OF TORONTO ONT ACCID ANAL PREV 12 (2) P. 113-117 1980

BIBLIOGRAPHY
0134 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME II MASTER BIBLIOGRAPHY INDEX ACKNOWLEDGEMENTS $ PB-80-177496 516P. 1977

0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BRUNN,S.K., MOLHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

1007 SAMSON,A.L., VANDERMEULEN,J.H., WELLS,P.G., MOYSE,C. A SELECTED BIBLIOGRAPHY ON THE FATE OF OIL POLLUTION RELEVANT TO THE CANADIAN MARINE ENVIRONMENT $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-5 OTTAWA ONTARIO 1980

1031 O'NEIL,R.A. A BIBLIOGRAPHY ON THE REMOTE-SENSING OF OIL POLLUTION $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-4 OTTAWA ONTARIO 1980

BIBLIOGRAPHY

1046 RESEARCH AND DEVELOPMENT DIVISION A BIBLIOGRAPHY ON FRESHWATER OIL SPILLS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-21 OTTAWA ONTARIO 1981

1047 RESEARCH AND DEVELOPMENT DIVISION A BIBLIOGRAPHY ON OIL SPILLS 1974-1980 VOLUME 1 - A-EQ $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-22(A) OTTAWA ONTARIO 1981

1048 RESEARCH AND DEVELOPMENT DIVISION A BIBLIOGRAPHY ON OIL SPILLS 1974-1980 VOLUME 2 - EQ-OY $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-22(B) OTTAWA ONTARIO 1981

1049 RESEARCH AND DEVELOPMENT DIVISION A BIBLIOGRAPHY ON OIL SPILLS 1974-1980 VOLUME 3 - OY-Z $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-22(C) OTTAWA ONTARIO 1981

1066 MYERS,A. CURRENT BIBLIOGRAPHY OF OFFSHORE TECHNOLOGY AND OFFSHORE LITERATURE CLASSIFICATION $ ASR MARKETING BERKHAMSTED HERTZ 1981

1067 BRASSARD,C., HARRISON,P., KWAMENA,F.A., WRIGHT,D. ONSHORE IMPACTS OF OFFSHORE HYDROCARBON DEVELOPMENT AN ANNOTATED BIBLIOGRAPHY $ ENVIRONMENT CANADA OTTAWA ONTARIO 1981

1068 COPENHAVER,E.D., WILKINSON,B.K. MOVEMENT OF HAZARDOUS SUBSTANCES IN SOIL A BIBLIOGRAPHY VOLUME 2 PESTICIDES $ PB80-113111 228P. 1979

BICKFORD,D.F

0019 ANGERMAN,C.L., BICKFORD,D.F., GOULD,T.H. JR., SMITH,P.K. SAFETY ANALYSIS REPORT FOR THE EXP-238-PUO-SUB-2-FUEL FORM FACILITY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 200P. 1977

BIDWELL,J.B

0844 BIDWELL,J.B. OIL SPILL CLEAN-UP: AN ECONOMIC AND REGULATORY MODEL $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB82-147489 30P. 1981

BIERMAN,G.R

0780 IRENTACOSTE,N.P., BIERMAN,G.R., CUNNINGHAM,J. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ SCIENCE APPLICATIONS INC MCLEAN VA PB-80-174287 227P. 1980

1111 IRENTACOSTE,N.P., BIERMAN,G.R. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174287 1980

BIGHT

0705 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME I $ PB-80-143704 203P. 1979

0706 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 1-7 $ PB-80-143712 400P. 1979

BIGHT

0707 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 8-15 $ PB-80-143720 395P. 1979

0708 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORTS 10-19 $ PB-80-143753 596P. 1979

1079 BISHOP,J.M. A CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NO 1 THE NEW-YORK BIGHT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON,D.C. 1980

BILGE

0615 OGAWA,T. THE IDENTIFICATION METHOD FOR LUBRICATING OIL ADDITIVES IN BILGE BY THE INFRARED-SPECTROSCOPY $ KAIJO HOAN UNIV JAPAN NIPPON HAKUYO KIKAN GAKKAISHI 16 (2) P. 115-20 1981

BINARY-MIXTURES

0309 GUSWANI,A.K. STABILITY OF OIL WATER EMULSIONS USING BINARY-MIXTURES OF PROTEIN AND SURFACTANT AS EMULSIFIERS $ KISHORI RAMAN COLL DEPT CHEM MATHURA INDIA ANNALI DI CHIMICA 69 (7-8) P. 389-397 1979

BINDING-CAPACITY

0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSWORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-02 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

BIOASSAY

0391 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 1 NARRATIVE $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-82-117078 322P. 1981

0392 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 2 APPENDICES $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-190944 477P. 1981

0877 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 2 THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 287-294 1981

BIOAVAILABILITY

0786 VANDERMEULEN,J.H., LONG,B.F.N., AHERN,T.P. BIOAVAILABILITY OF STRANDED AMOCO-CADIZ OIL AS A FUNCTION OF ENVIRONMENTAL SELF-CLEANING: APRIL 1978-JANUARY 1979 $ MAR ECOL LAB BEDFORD INST OCEANOGR DARTMOUTH NS AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 585-97 1979

BIOCHEMICAL

0393 KARELIN,Y.A., ZHUKOV,D.D., SAIDAMINOV,I.A. BIOCHEMICAL TREATMENT OF OIL CONTAINING WASTEWATER IN AERATION TANKS $ CHEM TECHNOL FUELS OILS 15 (7-8) P. 540-544 1979

BIOCIDES

0516 MIDDLEDITCH,B.S. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME V HYDROCARBONS BIOCIDES AND SULFUR $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-178451 106P. 1980

0760 TAGATZ,M.E., IVEY,J.M., OGLESBY,J.L. TOXICITY OF DRILLING-MUD BIOCIDES TO DEVELOPING ESTUARINE MACROBENTHIC COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY GULF BREEZE FLA PB-81-106031 10P. 1980

BIODEGRADATION

0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,D., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1980

0049 BALLERINI,D., VANDECASTEELE,J.P. BIODEGRADATION OF CRUDE-OIL IN A MARINE-ENVIRONMENT GENERAL METHODOLOGY $ INST FRANCAIS PETR F-92502 RUEIL MALMAISON FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 12P. 1980

0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSOPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

0759 TAFFEL,W., EPSTEIN,E. A STUDY OF RAPID BIODEGRADATION OF OILY WASTES THROUGH COMPOSTING $ ENERGY RESOURCES CO INC CAMBRIDGE MA AD-A081-432/7 57P. 1979

0802 WARD,D.M., ATLAS,R.M., BOEHM,P.D., CALDER,J.A. MICROBIAL BIODEGRADATION AND CHEMICAL EVOLUTION OF OIL FROM THE AMOCO-CADIZ SPILL $ MONT STATE UNIV BOZEMAN AMBIO 9 (6) P. 277-283 1980

0807 WESTLAKE,D.W.S., COOK,F.D. PETROLEUM BIODEGRADATION POTENTIAL OF NORTHERN PUGET-SOUND AND STRAIT OF JUAN-DE-FUCA ENVIRONMENTS $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WASHINGTON PB-81-141137 147P. 1980

1025 EIMHJELLEN,K., SOMMER,T. MICROBIOLOGY 2 BIODEGRADATION OF OIL $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-6 OTTAWA ONTARIO 1981

BIODETERIORATION

0335 HARRISON,E.A. BIODETERIORATION OF OIL SPILLS (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-803919 138P. 1980

0560 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA BIODETERIORATION OF OIL SPILLS 1964-FEBRUARY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-803827 145P. 1981

0946 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA BIODETERIORATION OF OIL SPILLS 1964-MARCH 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-807371 148P. 1982

BIOLOGICAL

0032 ATLAS,R.M., BOEHM,P.D., CALDER,J.A. CHEMICAL AND BIOLOGICAL WEATHERING OF OIL FROM THE AMOCO-CADIZ SPILLAGE WITHIN THE LITTORAL ZONE $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY ESTUARINE COASTAL AND SHELF SCIENCE 12 (5) P. 589-608 1981

0087 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 2 BIOLOGICAL EFFECTS $ MINISTRY AGRIC FISHERIES FOOD FISHERIES LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX UK MAR POLLUT BULL 11 (8) P. 217-220 1980

0099 BUESCH,D.F., HARTZBAND,D.J., ELLISON,R.L. MIDDLE ATLANTIC OUTER CONTINENTAL SHELF ENVIRONMENTAL STUDIES VOLUME IIB CHEMICAL AND BIOLOGICAL BENCHMARK STUDIES $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-174765 562P. 1979

0125 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 9 BIOLOGICAL STUDIES $ PB-82-117474 675P. 1981

0126 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 10 BIOLOGICAL STUDIES $ PB-82-124975 790P. 1981

0127 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 11 BIOLOGICAL STUDIES $ PB-82-124983 675P. 1981

0154 BURNS,K.A., SMITH,J.L. BIOLOGICAL MONITORING OF AMBIENT WATER QUALITY THE CASE FOR USING BIVALVES AS SENTINEL ORGANISMS FOR MONITORING PETROLEUM POLLUTION IN COASTAL WATERS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ESTUARINE COASTAL AND SHELF SCIENCE 13 (4) P. 433-443 1981

0336 HARRISON,E.A. THE BIOLOGICAL EFFECTS OF SPILLS VOLUME 2 1978-MARCH 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-806821 136P. 1980

0337 HARRISON,E.A. THE BIOLOGICAL EFFECTS OF OIL SPILLS (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-806839 240P. 1980

0354 HU,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., RAO,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

0378 JACKSON,W.B. ENVIRONMENTAL ASSESSMENT OF AN ACTIVE OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1977-1978 VOLUME II DATA MANAGEMENT AND BIOLOGICAL INVESTIGATIONS $ NATIONAL MARINE FISHERIES SERVICE GALVESTON TX PB-80-165970 799P. 1979

BIOLOGICAL

0380 JACQUES,J.M., KENSON,M., DELMOTTE,A. THE DEVELOPMENT OF A MODEL FOR BIOLOGICAL CONTROL OF SHALLOW TROPICAL WATERS SUBJECTED TO PETROLEUM THREATS $ NAECON NV DRUNGEN BELGIUM IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 727-735 1981

0472 LONG,E.R. PHYSICAL PROCESSES AND CRITICAL BIOLOGICAL AREAS IN THE VICINITY OF A PROPOSED PETROLEUM TRANSFER FACILITY $ NOAA SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S P. 489-497 1980

0506 MCINTYRE,A.D. THE USE OF BIOLOGICAL PARAMETERS TO MONITOR OIL POLLUTION IN THE SEA $ DEPT AGR AND FISHERIES SCOTLAND MARINE LAB ABERDEEN SCOTLAND IN: BRITISH ASSOC ADVANCEMENT SCI ENERGY IN THE BALANCE P. 37-50 1980

0562 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA THE BIOLOGICAL EFFECTS OF OIL SPILLS 1978-MAY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-806200 253P. 1981

0563 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA THE BIOLOGICAL EFFECTS OF OIL SPILLS 1975-MAY 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB-81-806218 284P. 1981

0661 KAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HO,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

0867 CARLSON,R.E. THE BIOLOGICAL DEGRADATION OF SPILLED JET-FUELS: A LITERATURE REVIEW $ AIR FORCE ENGINEERING AND SERVICES CENTER TYNDALL AFB FL AD-A110-758/0 41P. 1981

0927 MALINS,D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 5 BIOLOGICAL STUDIES: ASSESSMENT OF AVAILABLE LITERATURE ON EFFECTS OF OIL POLLUTION ON BIOTA IN ARCTIC AND SUBARCTIC WATERS $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-171794 716P. 1979

0962 OVIATT,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

BIOLOGICAL/CHEMICAL

0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

BIOLOGY

0122 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY EXECUTIVE SUMMARY 1977 $ PB-82-106692 94P. 1978

BIOLOGY

0123 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME I CHAPTERS 1-10 $ PB-81-106718 660P. 1979

0124 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME II CHAPTERS 11-21 $ PB-81-106726 604P. 1979

0128 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975 BIOLOGY AND CHEMISTRY $ PB-81-137689 625P. 1976

BIOMASS

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

BIOTA

0395 KARINEN,J.F. PETROLEUM IN THE DEEP SEA ENVIRONMENT: POTENTIAL FOR DAMAGE TO BIOTA $ NOAA AUKE BAY ALASKA ENVIRON INT 3 (2) P. 135-144 1980

0424 LASDAY,A.H. ASSESSMENT OF RISK TO MARINE BIOTA DURING AN OIL SPILL $ TEXACO INC USA PROC COUNC ECON AIME 108TH ANNU MEET P. 25-3 1979

0533 MYERS,A.A., SOUTHGATE,T., CROSS,T.F. DISTINGUISHING THE EFFECTS OF OIL POLLUTION FROM NATURAL CYCLICAL PHENOMENA ON THE BIOTA OF BANTRY-BAY IRELAND $ NATL UNIV IRELAND UNIV COLL CORK DEPT ZOOL CORK IRELAND MARINE POLLUTION BULLETIN 11 (7) P. 204-207 1980

0819 WISE,S.A., CHESLER,S.N., HERTZ,H.S., MAY,W.E., GUENTHER,F.R. DETERMINATION OF TRACE LEVEL HYDROCARBONS IN MARINE BIOTA $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-126278 11P. 1980

0927 MALINS,D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 5 BIOLOGICAL STUDIES: ASSESSMENT OF AVAILABLE LITERATURE ON EFFECTS OF OIL POLLUTION ON BIOTA IN ARCTIC AND SUBARCTIC WATERS $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-171794 716P. 1979

BIRD

0010 ALBERS,P.H. TRANSFER OF CRUDE-OIL FROM CONTAMINATED WATER TO BIRD EGGS $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD ENVIRONMENTAL RESEARCH 22 (2) P. 307-314 1980

0905 HANSEN,D.J. THE RELATIVE SENSITIVITY OF SEA BIRD POPULATIONS IN ALASKA USA TO OIL SPILLS $ ALASKA OCS OFFICE BUREAU LAND MANAGEMENT ANCHORAGE ALASKA PROCEEDINGS OF THE 23RD ALASKA SCIENCE MEETING FAIRBANKS ALASKA USA 32 (0) P. 96-97 1981

BIRDS

0137 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-186810 774P. 1979

0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

0541 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-130008 781P. 1978

0542 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME II RECEPTORS BIRDS $ PB-80-130016 964P. 1978

0543 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME III RECEPTORS BIRDS $ PB-80-130024 912P. 1978

0767 STICKEL,L.F., DIETER,M.P. ECOLOGICAL AND PHYSIOLOGICAL/TOXICOLOGICAL EFFECTS OF PETROLEUM ON AQUATIC BIRDS A SUMMARY OF RESEARCH ACTIVITIES FY76 $ FISH AND WILDLIFE SERVICE LAUREL MD PB-80-127285 20P. 1979

0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

BIRRIEN,J.L

0076 BESLIER,A., BIRRIEN,J.L., CABIOCH,L., LARSONNEUR,C., LEBURGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

BISHOP,J.M

0082 BISHOP,J.M. PROCEEDINGS OF THE WORKSHOP ON GOVERNMENT OIL SPILL MODELING HELD AT WALLOPS-ISLAND VIRGINIA ON NOVEMBER 7-9 1979 $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-190945 32P. 1980

0083 BISHOP,J.M., HARRIGAN,D., MELLO,V. P CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NUMBER 2 GULF OF MAINE/GEORGES BANK $ FEDERAL EMERGENCY MANAGEMENT AGENCY WASHINGTON, D.C. AD-A103-818/1 189P. 1981

1079 BISHOP,J.M. A CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NO 1 THE NEW-YORK BIGHT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON,D.C. 1980

BITUMEN

0673 KIPPEESTER,J.A., SIRIANNI,A.F. RECOVERY OF WATER AND BITUMEN FROM THE ATHABASCA OIL SAND TAILINGS PONDS $ NATL RES COUNCIL CANADA ONT JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (1) P. 131-133 1981

BIVALVES

0154 BURNS,K.A., SMITH,J.L. BIOLOGICAL MONITORING OF AMBIENT WATER QUALITY THE CASE FOR USING BIVALVES AS SENTINEL ORGANISMS FOR MONITORING PETROLEUM POLLUTION IN COASTAL WATERS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ESTUARINE COASTAL AND SHELF SCIENCE 13 (4) P. 433-443 1981

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

BJORKLUND,R.A

0084 BJORKLUND,R.A., KUSHIDA,R.O. FLASHBACK FLAME-ARRESTER DEVICES FOR FUEL CARGO TANK VAPOR VENTS $ COAST GUARD WASHINGTON, D.C. AD-A100-040/5 127P. 1981

BLACK,W.T

0845 BLACK,W.T., HOLLOWAY,D.M., LUSCHER,U., NYMAN,D.J., THOMAS,A.P. STUDY OF THE FACTORS AFFECTING THE SAFETY OF ARCTIC PIPELINES $ DEPARTMENT OF TRANSPORTATION WASHINGTON,D.C. PB82-149030 114P. 1981

BLACKALL,P.J

0574 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

BLACKBOURN,S.R

0085 BLACKBOURN,S.R. TEXAS 1979 EXPERIENCE WITH MARCO FILTERBELT SKIMMERS ON IXTOC-1 AND BURMAH-AGATE CRUDE OIL-SPILLS $ MARCO SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S P. 398-406 1980

BLACKMAN,R.A.A

0086 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 1 OIL IN WATERS AND SEDIMENTS $ MINIST AGRIC FISH FOOD FISH LAB REMEBRANCE AVE BURNHAM-ON-CROUCH ESSEX ENGL UK MAR POLLUT BULL 11 (7) P. 199-204 1980

0087 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 2 BIOLOGICAL EFFECTS $ MINISTRY AGRIC FISHERIES FOOD FISHERIES LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX UK MAR POLLUT BULL 11 (8) P. 217-220 1980

BLACKMAN,R.A.A

0088 BLACKMAN,R.A.A., LAB,R.J. THE ELENI-V OIL SPILL RETURN TO NORMAL CONDITIONS $ MINISTRY OF AGRIC FISHERIES AND FOOD FISHERIES LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX UK MAR POLLUT BULL 12 (4) P. 126-130 1981

BLACKTHORN

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1980

BLACKWELL,J.W

0890 FOLMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HODGINS,H.O. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 458-462 1981

BLAIR,A.H

0089 BLAIR,A.H. GROUND-WATER POLLUTION BY OIL PRODUCTS $ ANGLIAN WATER AUTH ENGL J INST WATER ENG SCI 34 (6) P. 557-569 1980

BLANCHARD,J.R

0388 JOHNSTON,C.S., BLANCHARD,J.R. HYDROCARBONS IN SEDIMENTS AND ASSOCIATED ORGANISMS $ INST OFFSHORE ENG HERIOT-WATT UNIV EDINBURGH SCOT ENERGY BALANCE PAP ANNU MEET BR ASSOC ADV SCI P. 20-36 1979

BLANKENSHIP,D.W

0423 LARSON,R.A., HUNT,L.L., BLANKENSHIP,D.W. FORMATION OF TOXIC PRODUCTS FROM A #2-FUEL-OIL BY PHOTOOXIDATION $ STROUD WATER RES CENT OF ACAD OF NAT SCI OF PHILADELPHIA AVONDALE ENVIRON SCI TECHNOL 11 (5) P. 492-496 1977

BLAYLOCK,J.W

0056 BEAN,R.M., BLAYLOCK,J.W., RILEY,R.G. APPLICATION OF TRACE ANALYTICAL TECHNIQUES TO A STUDY OF HYDROCARBON COMPOSITION UPON DISPERSION OF PETROLEUM IN A FLOWING SEAWATER SYSTEM $ BATTELLE MEM INST PACIFIC NW LABS BATTELLE BLVD RICHLAND WA IN: PETRAKIS,L., WEISS,F.T. PETROLEUM IN THE MARINE ENVIRONMENT 185 P. 235-246 1980

0090 BLAYLOCK,J.W., VANDERHORST,J.R., ANDERSON,J.W. ROLE OF TISSUE ANALYSIS FOR PETROLEUM HYDROCARBONS IN MARINE POLLUTION RESEARCH $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 15P. 1979

0618 OLLA,B.L., PEARSON,W.H., SUGARMAN,P.C., WOODRUFF,D.L., BLAYLOCK,J.W. THE EFFECTS OF PETROLEUM HYDROCARBONS ON CHEMORECEPTION AND BEHAVIOR IN THE DUNGENESS-CRAB "CANCER-MAGISTER" $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-82-116716 83P. 1981

0640 PEARSON,W.H., MILLER,S.E., BLAYLOCK,J.W., OLLA,B.L. DETECTION OF THE WATER SOLUBLE FRACTION OF CRUDE-OIL BY THE BLUE-CRAB CALLINECTES-SAPIDUS $ BATTELLE PAC NORTHWEST LAB MAR RES LAB SEQUIM WASH MAR ENVIRON RES 5 (1) P. 3-12 1981

BLAYLOCK,J.W

0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

0791 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P. RESEARCH TO INVESTIGATE EFFECTS FROM PRUDHOE-BAY CRUDE-OIL ON INTERTIDAL INFAUNA OF THE STRAIT OF JUAN-DE-FUCA FIRST ANNUAL REPORT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-80-160955 46P. 1979

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

BLEDSOE,L.J

0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

BLOCKER,R.E

0960 O'NEAL,W.C., BIANCHINI,G.M., BLOCKER,R.E., HIPPLE,D.L., HOGAN,W.J. 500-M-EXP-3 SPILL TEST FACILITY FOR LIQUEFIED-GASEOUS-FUELS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 25P. 1981

BLOOD

0499 MAZMANIDI,N.D., KOTOV,A.M. EFFECT OF PETROLEUM DISPERSANTS ON THE SURVIVAL RATE AND SOME PHYSIOLOGICAL-BIOCHEMICAL BLOOD INDEXES OF THE BLACK SEA SEA-BASS (SPICARA-SMARIS-L.) $ USES NAUCHNO-ISSLED INST MORSK RYBN KHOZ OKEANOGR BATUMI USSR GIDROBIOL ZH 17 (1) P. 74-8 1981

BLOOD-SERUM

0412 KOROLYUV,A.M., SYOMINA,T.K., MAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ KV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

BLOW-OUT

1129 GOLOB,R.S., MCSHEA,D.W. IMPLICATIONS OF THE IXTOC I BLOW-OUT AND OIL SPILL $ CENTER FOR SHORT-LIVED PHENOMENA WORLD INFORMATION SYSTEMS CAMBRIDGE MASSACHUSETTS 1980

BLOW-OUTS

0852 BOGDANOV,Y.M.; BORISOV,V.V.; GROKHOTOV,V.A.; MAZUROV,V.A. PREVENTION OF ACCIDENTAL BLOW-OUTS OF A FUEL IN UNDERGROUND RESERVOIRS $ VSES NAUCHNO-ISSLED INST ISPOL'Z GAZA NAR KHOZ MOSCOW USSR (SU) TRANSP KHRANENIE NEFTI NEFTEPROD (2) P. 20-4 1982

BLOWOUT

0215 DEUTSCH,M.; WULLNERS,R.R.; DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

0342 HAYES,R.M. OPERATIONAL USE OF REMOTE-SENSIN. DURING THE CAMPECHE-BAY OIL WELL BLOWOUT $ US COAST GUARD OCEANOGR UNIT WASHINGTON, D.C. PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1187-1196 1980

0756 SUTER,W.R. AUTOMATIC DIVERTER REDUCES SHALLOW BLOWOUT HAZARD $ WORLD OIL 182 (5) 53P. 1976

0840 BEDINGER,C.A.; MULTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-1 BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV $ HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

0850 BOEHM,P.D.; FIEST,D.L.; MACKAY,D.; PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-1 BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

0851 BOEHM,P.D.; FLEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-1 BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

0936 MUNDHEIM,O.; TOERHAUG,M.; HELSAKER,P. OFFSHORE BLOWOUT CONTROL $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING OSLO (NORWAY) 203P. 1981

1015 MARKO,J.R. DEEP-WATER BLOWOUT TRAJECTORY MODELS FOR THE LANCASTER-SOUND REGION $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-2 OTTAWA ONTARIO 1982

1063 GERMAN AND MILNE INC SUBSEA BLOWOUT CONTAINMENT SYSTEM CONCEPT ANALYSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-37 OTTAWA ONTARIO 1982

1070 NESTGAARD,R.H. WELL CONTROL IN CASE OF OFFSHORE BLOWOUT - REPORT #1 AND WORK DOCUMENT #13 $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING NORWAY 1981

1122 ISANG,G. THEORETICAL STUDY FOR GUIDANCE OF MODEL STUDY OF SUBSEA BLOWOUT CONTAINMENT DEVICE $ ENVIRONMENTAL EMERGENCY BRANCH OTTAWA ONTARIO NORTH-TECH 1980

BLOWOUT

1148 BOEHM,P.D., MACKAY,D. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDROCARBONS FROM THE IXTOC-I BLOWOUT - CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1981

BLOWOUTS

1126 BANNELOP,T.K., SJOEN,K. HYDRODYNAMICS OF UNDER-WATER BLOWOUTS $ AMERICAN INSTITUTE OF AERONAJTICS AND ASTRONAUTICS NEW YORK NY 1980

1130 DANENBERGER,E.P. OUTER CONTINENTAL SHELF OIL AND GAS BLOWOUTS $ DEPARTMENT OF THE INTERIOR WASHINGTON,D.C. 1980

BLUE-CRAB

0640 PEARSON,W.H., MILLER,S.E., BLAYLOCK,J.W., OLLA,B.L. DETECTION OF THE WATER SOLUBLE FRACTION OF CRUDE-OIL BY THE BLUE-CRAB CALLINECTES-SAPIDUS $ BATTELLE PAC NORTHWEST LAB MAR RES LAB SEQUIM WASH MAR ENVIRON RES 5 (1) P. 3-12 1981

BLUME,H.J.C

0874 CROSWELL,W.F., BLUME,H.J.C., JOHNSON,J.W. MICROWAVE REMOTE-SENSING MEASUREMENTS OF OIL POLLUTION OF THE OCEAN $ NASA LANGLEY RES CENT HAMPTON VA DIG - INT GEOSCI AND REMOTE SENS SYMP (IGARSS'81) 2 P. 1246-1251 1981

BOAT

0095 BURST,M., SMITH,G.F. DISPERSANT APPLICATION SYSTEM FOR THE US COAST GUARD 32-FOOT MPB (WATERWAYS PATROL BOAT) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101684 32P. 1981

BOATS

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V POLA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

BOATWRIGHT,D

0438 LEE,W.Y., MORRIS,A., BOATWRIGHT,D. MEXICAN OIL SPILL A TOXICITY STUDY OF OIL ACCOMMODATED IN SEAWATER ON MARINE-INVERTEBRATES $ UNIV TEXAS INST MARINE SCI PORT ARANSAS MARINE LAB PORT ARANSAS TX MARINE POLLUTION BULLETIN 11 (8) P. 231-234 1980

BOBBIE,R.J

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

BOBRA,A

0091 BOBRA,A., MACKAY,D., SHIU,W.Y. DISTRIBUTION OF HYDROCARBONS AMONG OIL WATER AND VAPOR PHASES DURING OIL DISPERSANT TOXICITY TESTS $ UNIV OF TORONTO ONT BULL ENVIRON CONTAM TOXICOL 23 (4-5) P. 558-565 1979

BUCARD,C

0092 BUCARD,C., RENAULT,P., CROQUETTE,J. CLEANING PRODUCTS USED IN OPERATIONS AFTER THE AMOCO-CADIZ DISASTER $ INST FR DU PET RUEIL MALMAISON FR PROC - OIL SPILL LOS ANGELES CALIF P. 163-167 1979

BUDENNEC,G

0998 WIESENBURG,D.A., BUDENNEC,G., BROOKS,J.M. VOLATILE LIQUID HYDROCARBONS AROUND A PRODUCTION PLATFORM IN THE NORTHWEST GULF OF MEXICO $ TEX A AND M UNIV COLLEGE STATION USA BULL ENVIRON CONTAM TOXICOL 27 (2) P. 167-174 1981

BUDY

0755 SUNDARAM,T.K. SPREAD OF OIL SLICKS ON A NATURAL BUDY OF WATER $ TS ASSOCIATES INC COLUMBIA MD JOURNAL OF HYDRONAUTICS 14 (4) P. 124-126 1980

0990 SUNDARAM,T.R. SPREADS OF OIL SLICKS ON A NATURAL BODY OF WATER REPLY $ TS ASSOCIATES INC COLUMBIA MD AIAA JOURNAL 20 (3) P. 446-448 1982

0994 WALDMAN,G.D., FANNELOP,T.K. SPREADS OF OIL SLICKS ON A NATURAL BODY OF WATER COMMENT $ AVCO SYST DIV WILMINGTON MA AIAA JOURNAL 20 (3) 447P. 1982

BUECKUSIMUS-(#ONISIMUS)-AFFINIS

0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BUECKUSIMUS-(#ONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

BUEHM,P

0383 JOHANSSON,S., LARSSON,U., BOEHM,P. THE TSESIS OIL SPILL IMPACT ON THE PELAGIC ECOSYSTEM $ ASKO LAB INST MARINE RES UNIV STOCKHOLM SWED MAR POLLUT BULL 11 (0) P. 284-293 1980

0454 LINDEN,O., ELMGREN,R., BOEHM,P. TSESIS OIL SPILL: ITS IMPACT ON THE COASTAL ECOSYSTEM OF THE BALTIC SEA $ SWED WATER AND AIR POLLUT RES INST NYKOPING AMBIO 8 (6) P. 244-253 1979

0846 BOEHM,P. IXTOC OIL SPILL ASSESSMENT: EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-197773 41P. 1982

0847 BOEHM,P. IXTOC OIL SPILL ASSESSMENT: FINAL REPORT (SECTIONS 1-8) $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-197781 335P. 1982

0848 BOEHM,P. IXTOC OIL SPILL ASSESSMENT: APPENDICES (SECTION 9) $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-197799 86P. 1982

BUEHM,P.D

0082 ATLAS,R.M., BOEHM,P.D., CALDER,J.A. CHEMICAL AND BIOLOGICAL WEATHERING OF OIL FROM THE AMOCO-CADIZ SPILLAGE WITHIN THE LITTORAL ZONE $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY ESTUARINE COASTAL AND SHELF SCIENCE 12 (5) P. 589-608 1981

BUEHM,P.D

0093 BUEHM,P.D., STEINHAUER,W.G., FIEST,D.L., ROSEMAN,N., BARAK,J.E., PERRY,G.M. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON POLLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMBRIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

0098 BUEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

0802 WARD,D.M., ATLAS,R.M., BUEHM,P.D., CALDER,J.A. MICROBIAL BIODEGRADATION AND CHEMICAL EVOLUTION OF OIL FROM THE AMUCO-CADIZ SPILL $ MONT STATE UNIV BOZEMAN AMBIO 9 (6) P. 277-283 1980

0849 BUEHM,P.D., BARAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

0850 BUEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-1 BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

0851 BUEHM,P.D., FIEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-I BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

1021 BUEHM,P.D. CHEMISTRY 2 HYDROCARBON CHEMISTRY $ BAFFIN ISLAND OIL SPILL WORKING REPORT # BIOS-80-2 OTTAWA ONTARIO 1981

1148 BUEHM,P.D., MACKAY,D. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDROCARBONS FROM THE IXTOC-I BLOWOUT - CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1981

BUESCH,D.F

0094 BUESCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALONGI,D.M., BOWEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 258P. 1981

0099 BUESCH,D.F., HARTZBAND,D.J., ELLISON,R.L. MIDDLE ATLANTIC OUTER CONTINENTAL SHELF ENVIRONMENTAL STUDIES VOLUME IIB CHEMICAL AND BIOLOGICAL BENCHMARK STUDIES $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-174765 562P. 1979

BOGDANOV,Y.M

0852 BOGDANOV,Y.M., BORISOV,V.V., GROKHOTOV,V.A., MAZUROV,V.A. PREVENTION OF ACCIDENTAL BLOW-OUTS OF A FUEL IN UNDERGROUND RESERVOIRS $ VSES NAUCHNO-ISSLED INST ISPOL'Z GAZA NAR KHOZ MOSCOW USSR (SU) TRANSP KHRANENIE NEFTI NEFTEPROD (2) P. 20-4 1982

BOGORUDSKII,V.V

0100 BOGORUDSKII,V.V., SHEVELEVA,T.I., TARASHKEVICH,V.N. DAMPING OF WATER-WAVES BY SURFACE OIL FILMS $ ARCT AND ANTARCT RES INST LENINGRAD USSR DOKLADY AKADEMII NAUK SSSR 255 (1) P. 198-201 1980

BOHLEN

0488 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS: APPLICATION TO THE "BOHLEN" OIL SPILLAGE $ CENT OCEANOL BRETAGNE CNEXO BREST FR OCEANOL ACTA 4 (2) P. 171-83 1981

0492 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS APPLICATION TO THE BOHLEN OIL SPILLAGE $ CTR NATL EXPLOITAT OCEANS CTR OCEANOL BRETAGNE BP BREST FRANCE OCEANOLOGICA ACTA 4 (2) P. 171-183 1981

BOHLER,T

0779 TVEIT,O.J., MYKLATUN,B., BOHLER,T., VESTERHAUG,O. RISK ANALYSIS OF A TYPICAL NORTH SEA PETROLEUM PRODUCTION PLATFORM $ DET NOR VERITAS NORW OFFSHORE TECHNOL CONF 12TH ANNUAL PROC 4 P. 501-508 1980

BOIARSKI,A

1136 NAKAMIYA,W., PETTY,S.E., BOIARSKI,A., PUTMAN,A. COMBUSTION OF OILS ON WATER AN EXPERIMENTAL PROGRAM $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 1982

BOIKO,T.F

0018 ANDRESUN,R.K., MUKHATANOV,A.K., BOIKO,T.F. ECOLOGICAL CONSEQUENCES OF SOIL POLLUTION WITH OIL $ ACAD SCI USSR INST BIOL UFA SOVIET JOURNAL OF ECOLOGY 11 (6) P. 340-344 1980

BOLAND,G.S

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

BOLSTER,R.N

0101 BOLSTER,R.N., LITTLE,R.C. CHEMICAL DEMULSIFICATION OF SEAWATER IN RESIDUAL OIL EMULSIONS $ US NAV RES LAB WASHINGTON, D.C. ENVIRON INT 3 (2) P. 163-170 1980

BUNED,C

0177 CLAUSSE,M., BUNED,C., PEYRELASSE,J., LAGOURETTE,B., MCCLEAN,V., SHEPPARD,R.J. DIELECTRIC AND CONDUCTIVE PROPERTIES OF WATER-IN-OIL TYPE MICRO-EMULSIONS $ UNIV PAU AND PAYS ADOUR INST RECH SCI DEPT PHYS THERMODYNAM LAB PAU FRANCE IN: SHAH,D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 199-228 1981

BUNFIGLIOLI,G

0102 BUNFIGLIOLI,G. CONTROL OF GAS-PIPELINE AND OIL PIPELINE NETWORKS $ ELETTROTECNICA 67 (10) P. 969-974 1980

BUNNIER,P.E

1114 BUNNIER,P.E. SLUDGE FARMING A TECHNIQUE FOR THE DISPOSAL OF OILY REFINERY WASTES $ CONCAWE 1980

BUNSDORFF,E

0853 BUNSDORFF,E., NELSON,W.G. FATE AND EFFECTS OF EKOFISK CRUDE-OIL IN THE LITTORAL OF A NORWEGIAN FJORD $ INST MAR BIOL UNIV BERGEN BLOMSTERDALEN NORWAY SARSIA 66 (3) P. 231-40 1981

BUNVOULOIR,D

0233 EHRENSPECK,H., USTERYOUNG,K., BONVOULOIR,D. OIL POLLUTION ABSTRACTS VOLUME 6 NUMBER 4 (OCTOBER 1979-DECEMBER 1979) $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-191067 217P. 1980

BOOM

0291 GEE,T., VANDERKOOY,N. DEVELOPMENT OF A NOVEL ICE OIL BOOM FOR FLOWING WATERS $ ENVIRON CAN BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 377-385 1979

0999 WILSON,H.B. DEVELOPMENT AND TESTING OF A WEIR BOOM FOR OIL RECOVERY AT SEA $ BR PET CO ENGL PET REV 35 (417) P. 36-39 1981

1050 BURST,M. QUANTIFIED PERFORMANCE TESTING OF THE ZOOM BOOM $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-23 OTTAWA ONTARIO 1981

1119 BUIST,I. FIREPROOF BOOM DEVELOPMENT PHASE III - PROTOTYPE CONSTRUCTION AND TESTING FOR DOME PETROLEUM LTD $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1981

1120 BUIST,I. FIRE-PROOF BOOM DEVELOPMENT OHMSETT TRIALS $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1981

1125 ANONYMOUS OIL SPILL CONTAINMENT BOOM EVALUATION TRIALS NORTH SASKATCHEWAN RIVER $ CANADIAN PETROLEUM ASSOCIATION PRAIRIE REGION 1980

1140 BURST,M. QUANTIFIED PERFORMANCE TESTING OF THE ZOOM BOOM $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

BOOMS

0314 GREENE,G.D., BRODSKY,A.Z., CHARLES,M.E., MACKAY,D. USE OF DEFLECTORS FOR DEPLOYMENT OF OIL BOOMS IN RIVERS $ ESSO RESOUR CAN LTD CALGARY ALBERTA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 411-417 1979

BOOMS

0426 LAU,Y.L. OIL BOOMS AND SKIMMER WALLS A COMPARISON DISCUSSION $ NATL WATER RES INST DIV HYDR RES ENVIRONM HYDR SECT BURLINGTON ONTARIO CAN JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION- ASCE 107 (3) 605P. 1981

0713 SHARP,J.J. OIL BOOMS AND SKIMMER WALLS A COMPARISON $ MEM UNIV NEWFOUNDLAND ST-JOHNS NEWFOUNDLAND CANADA JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION-ASCE 106 (5) P. 991-995 1980

0714 SHARP,J.J. OIL BOOMS AND SKIMMER WALLS A COMPARISON DISCUSSION $ MEM UNIV NEWFOUNDLAND ST-JOHNS NEWFOUNDLAND CANADA JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION-ASCE 107 (6) 1329P. 1981

0733 SMITH,G.F. DEPLOYMENT CONFIGURATIONS FOR IMPROVED OIL CONTAINMENT WITH SELECTED SORBENT BOOMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101650 32P. 1981

0949 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL: DISPERSANTS ABSORBANTS BOOMS AND SKIMMERS 1978-JANUARY 1982 (CITATIONS FROM THE INFORMATION RETRIEVAL LTD DATA BASE) $ PB82-859125 78P. 1982

BOONE-CREEK

0701 SCHULTZ,D.A. BOONE-CREEK OIL SPILL $ ENVIRONMENTAL PROTECTION AGENCY ATHENS GA PB-80-159320 53P. 1973

BORISOV,V.V

0852 BOGDANOV,Y.M., BORISOV,V.V., GROKHOTOV,V.A., MAZUROV,V.A. PREVENTION OF ACCIDENTAL BLOW-OUTS OF A FUEL IN UNDERGROUND RESERVOIRS $ VSES NAUCHNO-ISSLED INST ISPOL'Z GAZA MAR KHOZ MOSCOW USSR (SU) TRANSP KHRANENIE NEFTI NEFTEPROD (2) P. 20-4 1982

BORKMANN,G

0103 BORKMANN,G., DIETRICH,P. INTERNATIONAL IAH SYMPOSIUM ON GROUND-WATER POLLUTION BY OIL HYDROCARBONS HELD AT PRAGUE 5-9 JUNE 1978 $ ZEITSCHRIFT FUR ANGEWANDTE GEOLOGIE 26 (5) P. 274-276 1980

BORST,M

0095 BORST,M., SMITH,G.F. DISPERSANT APPLICATION SYSTEM FOR THE US COAST GUARD 32-FOOT WPB (WATERWAYS PATROL BOAT) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101684 32P. 1981

0921 LICHTE,H.W., BORST,M., SMITH,G.F. TESTS OF THE SHELL SOCK SKIMMER ABOARD USNS POWHATAN $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OH PB82-220849 92P. 1981

1050 BORST,M. QUANTIFIED PERFORMANCE TESTING OF THE ZOOM BOOM $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-23 OTTAWA ONTARIO 1981

1140 BORST,M. QUANTIFIED PERFORMANCE TESTING OF THE ZOOM BOOM $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

BORTKOVSKII,R.S

0029 ARIEL,N.Z., BYUTNER,E.K., BORTKOVSKII,R.S., STROKINA,L.A. INFLUENCE OF OIL FILM POLLUTION OF THE OCEAN ON OXYGEN EXCHANGE WITH THE ATMOSPHERE $ SOV METEOROL HYDROL (2) P. 47-54 1979

BOTELLO,A.V

0096 BOTELLO,A.V., CASTRO,S.A. BASE-LINE STUDIES FOR HYDROCARBONS AND ORGANIC-CARBON ISOTOPE RATIOS OF RECENT SEDIMENTS IN THE BANK OF CAMPECHE BEFORE THE IXTOC-1 OIL-SPILL $ NATL AUTONOMOUS UNIV MEXICO CTR CIENCIAS MAR AND LIMNOL MEXICO CITY ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 35P. 1980

0480 MACKO,S.A., PARKER,P.L., BOTELLO,A.V. PERSISTANCE OF SPILLED OIL IN A TEXAS USA SALT-MARSH $ PORT ARANSAS MAR LAB MAR SCI INST UNIV TEX PORT ARANSAS TEX ENVIRON POLLUT SER B CHEM PHYS 2 (2) P. 119-128 1981

BOTTOM

0227 D'OZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

BOTTOMS

0332 HANSEN,C.A., SANDERS,R.G. REMOVAL OF HAZARDOUS MATERIAL SPILLS FROM BOTTOMS OF FLOWING WATERBODIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-230922 113P. 1981

BOUCHER,G

0097 BOUCHER,G. IMPACT OF AMOCO-CADIZ OIL-SPILL ON INTER-TIDAL AND SUBLITTORAL MEIOFAUNA $ CTR ETUD OCEANOG AND BIOL MARINE ROSCOFF ROSCOFF FRANCE MARINE POLLUTION BULLETIN 11 (4) P. 95-101 1980

BOUCHER,J

0692 SAMAIN,J.F., MOAL,J., DANIEL,J.Y., BOUCHER,J., LEFEVRE,J. ECOPHYSIOLOGICAL EFFECTS OF OIL SPILLS FROM AMOCO-CADIZ ON PELAGIC COMMUNITIES PRELIMINARY RESULTS $ CENT OCEANOL DE BRETAGNE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 175-185 1979

BOURGEOIS,C

0963 PAPIRER,E., BOURGEOIS,C., SIFFERT,B., BALARD,H. CHEMICAL NATURE AND WATER OIL EMULSIFYING PROPERTIES OF ASPHALTENES $ CTR RECH PHYS CHIM SURFACES SOLIDES MULHOUSE FRANCE FUEL 61 (8) P. 732-734 1982

BOURNE,W.R.P

0104 BOURNE,W.R.P. SETBACK TO CONTROL OF OIL POLLUTION IN SCOTLAND $ UNIV ABERDEEN ABERDEEN SCOTLAND MARINE POLLUTION BULLETIN 11 (7) 177P. 1980

BOWEN,M.A
0094 BOESCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALONGI,D.M., BOWEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 258P. 1981

BOWEN,R.D
0221 DIMOCK,C.W., LAKE,J.L., NORWOOD,C.B., BOWEN,R.D., HOFFMAN,E.J. FIELD AND LABORATORY METHODS FOR INVESTIGATING A MARINE GASOLINE SPILL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-185712 5P. 1981

BRAESTER,C
0768 THUNVIK,R., BRAESTER,C. MODELING OF GROUND-WATER FLOW AROUND OIL STORAGE CAVERNS $ ROYAL INST TECHNOL DEPT LAND IMPROVEMENT AND DRAINAGE STOCKHOLM SWEDEN APPLIED MATHEMATICAL MODELLING 4 (3) P. 225-227 1980

BRASSARD,C
1067 BRASSARD,C., HARRISON,P., KWAMENA,F.A., WRIGHT,D. ONSHORE IMPACTS OF OFFSHORE HYDROCARBON DEVELOPMENT AN ANNOTATED BIBLIOGRAPHY $ ENVIRONMENT CANADA OTTAWA ONTARIO 1981

BRATIANU,V
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KUSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

BRAWAND,H
0854 BROWN,K.W., BRAWAND,H., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 257-261 1982

BREAK-UP
0028 ARAVAMUDAN,K., RAJ,P.K., NEWMAN,E., TUCKER,W.A. BREAK-UP OF OIL ON ROUGH SEAS SIMPLIFIED MODELS AND STEP-BY-STEP CALCULATIONS $ COAST GUARD WASHINGTON, D.C. AD-A084-240/1 210P. 1979

BREAKING
0108 BRIDIE,A.L., WANDERS,TH.H., ZEGVELD,W., VAN DER HEIJDE,H.B. FORMATION PREVENTION AND BREAKING OF SEA WATER IN CRUDE-OIL EMULSIONS 'CHOCULATE-MOUSSES' $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

0534 NAESS,A. EFFECT OF BREAKING WAVES ON THE MIXING OF LIQUID POLLUTANTS INTO THE SEA $ NORW HYDRODYN LAB TRONDHEIM NATL CONF PUBL INST ENG AUST (80-1) P. 198-199 1980

0535 NAESS,A. MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ NORW HYDRODYN LAB JPT J PET TECHNOL 32 (6) P. 1113-1122 1980

BREAKING

0937 MAESS,A. ON THE RESIDENCE TIME OF OIL MIXED INTO THE WATER COLUMN BY BREAKING WAVES $ NORW HYDRODYN LAB OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 497-508 1981

1143 MAESS,A. THE MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ JOURNAL OF PETROLEUM TECHNOLOGY 1979

BREEDING

0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

BRESLIN,M.K

0105 BRESLIN,M.K. PERFORMANCE TESTING OF THE DIPERNA-SWEEPER $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-109174 44P. 1981

0106 BRESLIN,M.K. USING COHERENT WATER-JETS TO CONTROL OIL-SPILLS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-232720 108P. 1981

0107 BRESLIN,M.K. PERFORMANCE TESTS OF HIGH SPEED ZRV OIL SKIMMER $ COAST GUARD WASHINGTON, D.C. AD-A088-062/5 156P. 1980

0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

0450 LICHTE,H.W., BRESLIN,M.K., SMITH,G.F., GRAHAM,D.J., URBAN,R.W. PERFORMANCE TESTING OF FOUR SKIMMING SYSTEMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101353 92P. 1981

1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174402 1980

1131 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

BRETON

0920 RAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., MEUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

BREUEL,A

0856 BREUEL,A. (ED.) OIL SPILL CLEANUP AND PROTECTION TECHNIQUES FOR SHORELINES AND MARSH LANDS $ POLLUT TECHNOL REV (78) 404P. 1981

BREUEL,A
0857 BREUEL,A. (ED.) POLLUTION TECHNOLOGY REVIEW NO 87: HOW TO DISPOSE OF OIL AND HAZARDOUS CHEMICAL SPILL DEBRIS $ USA 420P. 1981

BRIDIE,A.L
0108 BRIDIE,A.L., WANDERS,TH.H., ZEGVELD,W., VAN DER HEIJDE,H.B. FORMATION PREVENTION AND BREAKING OF SEA WATER IN CRUDE-OIL EMULSIONS *CHOCOLATE-MOUSSES* $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

BRIGHT,D.B
0109 BRIGHT,D.B. WEST COAST OIL SPILLS A PROBABILITY ANALYSIS KEYED TO SOUTHERN CALIFORNIA $ ENVIRON FEASIBILITY STUD LOS ANGELES CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 45-51 1979

BRILL,J.P
0527 MUKHERJEE,H., BRILL,J.P., BEGGS,H.D. EXPERIMENTAL STUDY OF OIL WATER FLOW IN INCLINED PIPES $ JOHNSTON MACCO SCHLUMBERGER SUGERLAND TX JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME 103 (1) P. 56-66 1981

BRINE
0098 BUEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

0377 JACKSON,G.F., HUME,E., WADE,M.J., KIRSCH,M. OIL CONTENT IN PRODUCED BRINE ON TEN LOUISIANA PRODUCTION PLATFORMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-108408 495P. 1981

BRISTOL
0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LMW HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

BRISTOW,M.P.F
1127 O'NEIL,R.A., HOGE,F.E., BRISTOW,M.P.F. THE CURRENT STATUS OF AIRBORNE LASER FLUOROSENSING $ ENVIRONMENT CANADA ANN ARBOR MICHIGAN 1981

BRITISH
0025 ANON. ENERGY IN THE BALANCE SOME PAPERS FROM BA79: PAPERS GIVEN AT THE ANNUAL MEETING OF THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE 1979 $ BR ASSOC FOR THE ADV OF SCI ENERGY IN THE BALANCE SOME PAP FROM BA79 234P. 1979

0110 BRITISH CARBONIZATION RESEARCH ASSOCIATION CHESTERFIELD ENGLAND PROCEEDINGS OF THE SYMPOSIUM ON TAR ACID-EXTRACTION 11 APRIL 1978 $ 59P. 1979

BRITTANY

0076 BESLIER,A., BIRRIEN,J.L., CABIOCH,L., LARSONNEUR,C., LEBORGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

0157 CABIOCH,L., DAUVIN,J.C., BERMUDEZ,J.M., BABIO,C.R. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SUBLITTORAL BENTHOS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 192-208 1980

0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., CUSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

BRODSKY,A.Z

0314 GREENE,G.D., BRODSKY,A.Z., CHARLES,M.E., MACKAY,D. USE OF DEFLECTORS FOR DEPLOYMENT OF OIL BOOMS IN RIVERS $ ESSO RESOUR CAN LTD CALGARY ALBERTA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 411-417 1979

BROICH,W.A

0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

BROKEN

0893 FREE,A.P., COX,J.C., SCHULTZ,L.A. LABORATORY STUDIES OF OIL SPILL BEHAVIOR IN BROKEN ICE FIELDS $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A114-178/7 63P. 1981

BROOKS,J.M

0181 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

0182 BROOKS,J.M., WIESENBURG,D.A., BURKE,R.A. JR., KENNICUTT,M.C. GASEOUS AND VOLATILE HYDROCARBON INPUTS FROM A SUBSURFACE OIL SPILL IN THE GULF OF MEXICO $ DEP OCEANOGR TEXAS A AND M UNIV COLLEGE STATION TX ENVIRON SCI TECHNOL 15 (8) P. 951-9 1981

BROOKS,J.M

0998 WIESENBURG,D.A., BODENNEC,G., BROOKS,J.M. VOLATILE LIQUID HYDROCARBONS AROUND A PRODUCTION PLATFORM IN THE NORTHWEST GULF OF MEXICO $ TEX A AND M UNIV COLLEGE STATION USA BULL ENVIRON CONTAM TOXICOL 27 (2) P. 167-174 1981

BROWN,C.H

0113 BROWN,C.H. PROCEEDINGS OF THE 1979 US FISH AND WILDLIFE SERVICE POLLUTION RESPONSE WORKSHOP HELD AT ST PETERSBURG FLORIDA ON 8 $ FISH AND WILDLIFE SERVICE WASHINGTON, D.C. PB-80-141591 212P. 1979

BROWN,D.W

0114 BROWN,D.W., FRIEDMAN,A.J., PROHASKA,P.G., MACLEOD,W.D. JR. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND PART II (SECOND-YEAR CONTINUATION) $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-82-104290 46P. 1981

0115 BROWN,D.W., FRIEDMAN,A.J., BURROWS,D.G. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND $ NOAA NATIONAL ANALYTICAL FACILITY SEATTLE WA PB-80-128218 120P. 1979

0484 MALINS,D.C., KRAHN,M.M., BROWN,D.W., MACLEOD,W.D., COLLIER,T.K. ANALYSIS FOR PETROLEUM PRODUCTS IN MARINE ENVIRONMENTS $ NOAA NATL MARINE FISHERIES SERV NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA HELGOLANDER MEERESUNTER- SUCHUNGEN 33 (1-4) P. 257-271 1980

BROWN,J.W

0224 DOWTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

BROWN,K.W

0854 BROWN,K.W., BRAHAND,H., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 257-261 1982

0855 BROWN,K.W., DONNELLY,K.C. MUTAGENIC POTENTIAL OF WATER CONCENTRATES FROM THE EFFLUENT OF A WASTE OIL STORAGE POND $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (4) P. 424-429 1982

BROWN,S.K

0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., HOLHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

BROWN,W.J
1037 BROWN,W.J., DENHAM,F.R. AN ECONOMIC EVALUATION OF A MOBILE ROTARY-KILN DESIGNED FOR THE CLEANUP OF OIL CONTAMINATED BEACHES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-10 OTTAWA ONTARIO 1980

BROWNE,J
0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

BRYANT,B
0837 ATEMA,J., KARNOFSKY,E.B., OLESZKO-SZUTS,S., BRYANT,B. LOBSTER BEHAVIOR AND CHEMORECEPTION: SUBLETHAL EFFECTS OF NUMBER-2-FUEL-OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-192444 71P. 1982

BUBBLE
0427 LAU,Y.L., ENGEL,P. CONTROL OF OIL SLICKS IN FLOWING WATER USING AIR BUBBLE BARRIERS $ NATL WATER RES INST DIV HYDRAUL RES BURLINGTON ONTARIO CANADA CANADIAN JOURNAL OF CIVIL ENGINEERING 7 (2) P. 397-405 1980

1139 ANONYMOUS AIR BUBBLE DIVERTER $ CANADIAN PETROLEUM ASSOCIATION CALGARY ALBERTA 1980

BUCCANEER
0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

0516 MIDDLEDITCH,B.S. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME V HYDROCARBONS BIOCIDES AND SULFUR $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-178451 106P. 1980

0517 MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY EPILOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 421-432 1981

BUCCANEER
0518 MIDDLEDITCH,B.S., GALLAWAY,B.J. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY PROLOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 1-14 1981

0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192429 63P. 1980

0727 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME III BACTERIOLOGY OF A GULF OF MEXICO GAS AND OIL FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192189 54P. 1980

0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

0769 TILLERY,J.B. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME VIII TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192452 127P. 1980

0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

BUCHAN,R.M
0153 BURNHAM,L.W., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

BUCKLEY,E.N
0116 BUCKLEY,E.N., PFAENDER,F.K. EFFECTS OF IXTOC-1 OIL SPILL ON OCEANIC MICROBIAL COMMUNITIES $ UNIV OF NORTH CAROLINA CHAPEL HILL NC 81ST ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY 81 (0) 182P. 1981

BUDAY,F
0127 BUDAY,F., SASS,L., TOROK,G., GERGELY,Z., SZAKACS,A., VORDS,I. MICROBIOLOGICAL DEGRADATION OF OIL POLLUTION OF SOILS $ HIGH PRESSURE RES INST SZASZHALOMBATTA HUNGARY ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE 27 (3) 258P. 1980

BUHITE,T.R
0118 BUHITE,T.R. CLEANUP OF A COLD WEATHER TERRESTRIAL PIPELINE SPILL $ ALYESKA PIPELINE SERV CO ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 367-369 1979

BUIST,I

1035 MACKAY,D., BUIST,I., MASCARENHAS,R., PATERSON,S. OIL SPILL PROCESSES AND MODELS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-8 OTTAWA ONTARIO 1980

1069 BUIST,I., DICKINS,D. OIL AND GAS UNDER SEA ICE STUDY - VOLUMES 1 AND 2 $ DOME PETROLEUM LIMITED 1981

1119 BUIST,I. FIREPROOF BOOM DEVELOPMENT PHASE III - PROTOTYPE CONSTRUCTION AND TESTING FOR DOME PETROLEUM LTD $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1981

1120 BUIST,I. FIRE-PROOF BOOM DEVELOPMENT OHMSETT TRIALS $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1981

BUJA-BIJUNAS,L

0621 O'NEIL,R.A., BUJA-BIJUNAS,L., RAYNER,D.M. FIELD PERFORMANCE OF A LASER-FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ DEP OF ENERGY MINES AND RESOUR OTTAWA APPL OPT 19 (6) P. 863-870 1980

BULK

0481 MAGOTT,R.J., BASS,R.L. III, MORROW,T.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

0570 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA NATURAL-GAS: BULK CARRIERS JANUARY 1974-JULY 1981 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB-81-872269 75P. 1981

0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

BUNCH,J.N

1024 BUNCH,J.N., HARLAND,R.C., LALIBERTE,J. MICROBIOLOGY I EFFECTS OF OIL ON BACTERIAL ACTIVITY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-5 OTTAWA ONTARIO 1981

BURESH,R.J

0281 DELAUNE,R.D., PATRICK,W.H. JR., BURESH,R.J. EFFECT OF CRUDE-OIL ON A LOUISIANA *SPARTINA-ALTERNIFLORA SALT-MARSH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-164502 11P. 1979

BURGER,E.D

0151 BURGER,E.D., CHORN,L.G., PERKINS,T.K. STUDIES OF DRAG REDUCTION CONDUCTED OVER A BROAD RANGE OF PIPELINE CONDITIONS WHEN FLOWING PRUDHOE-BAY CRUDE-OIL $ ARCO OIL AND GAS CO DALLAS TX JOURNAL OF RHEOLOGY 24 (5) P. 603-626 1980

BURGESS,W.S
0803 WEBER,E.C., BURGESS,W.S. MARYLAND'S EXPERIENCE IN SPILL PREVENTION AND CONTROL $ WATER RESOUR ADM ANNAPOLIS MD PROC MID ATL IND WASTE CONF 12TH BUCKNELL UNIV LEWISBURG PA P. 24-28 1980

BURKE,R.A
0112 BROOKS,J.M., WIESENBURG,D.A., BURKE,R.A. JR., KENNICUTT,M.C. GASEOUS AND VOLATILE HYDROCARBON INPUTS FROM A SUBSURFACE OIL SPILL IN THE GULF OF MEXICO $ DEP OCEANOGR TEXAS A AND M UNIV COLLEGE STATION TX ENVIRON SCI TECHNOL 15 (8) P. 951-9 1981

BURKHALTER,R
0152 BURKHALTER,R., MEYER,C., MASSIN,J.M. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN FRENCH COASTAL WATERS $ LAB NATL ESSAIS PARIS FRANCE IN: COOK,J.J. PROCEEDINGS OF THE FOURTEENTH INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 3 VOLS P. 269-274 1980

BURLINGTON
0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

BURMAH-AGATE
0085 BLACKBOURN,S.R. TEXAS 1979 EXPERIENCE WITH MARCO FILTERBELT SKIMMERS ON IXTOC-1 AND BURMAH-AGATE CRUDE OIL-SPILLS $ MARCO SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S P. 398-406 1980

0899 GOODIEK,J.L., SICLARI,R.J. COMBUSTION: AN OIL SPILL MITIGATION TOOL PHASE II THE BURNING OF THE M/T BURMAH-AGATE (EX-DANALAND) $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 134P. 1981

BURNER
1124 ANONYMOUS THE DEVELOPMENT AND TESTING OF A HELICOPTER PORTABLE BURNER $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1980

BURNHAM,L.N
0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

BURNING
0899 GOODIEK,J.L., SICLARI,R.J. COMBUSTION: AN OIL SPILL MITIGATION TOOL PHASE II THE BURNING OF THE M/T BURMAH-AGATE (EX-DANALAND) $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 134P. 1981

1056 GEORGHIOU,P.E. A STUDY OF THE MUTAGENICITY OF RESIDUE RESULTING FROM THE BURNING OF CRUDE-OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-29 OTTAWA ONTARIO 1982

BURNING

1116 ANONYMOUS BURNING OF CRUDE-OIL UNDER WIND HERDING CONDITIONS $ ENERGETEX ENGINEERING WATERLOO ONTARIO 1981

BURNS,K.A

0154 BURNS,K.A., SMITH,J.L. BIOLOGICAL MONITORING OF AMBIENT WATER QUALITY THE CASE FOR USING BIVALVES AS SENTINEL ORGANISMS FOR MONITORING PETROLEUM POLLUTION IN COASTAL WATERS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ESTUARINE COASTAL AND SHELF SCIENCE 13 (4) P. 433-443 1981

0864 BURNS,K.A., SMITH,J.L. HYDROCARBONS IN VICTORIAN COASTAL ECOSYSTEMS (AUSTRALIA) - CHRONIC PETROLEUM INPUTS TO WESTERN PORT AND PORT-PHILLIP BAYS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (2) P. 129-140 1982

BURRESON,E.M

0094 BUESCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALONGI,D.M., BUNEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 258P. 1981

BURROWS,D.G

0115 BROWN,D.W., FRIEDMAN,A.J., BURROWS,D.G. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND $ NOAA NATIONAL ANALYTICAL FACILITY SEATTLE WA PB-80-128218 120P. 1979

BUSDOSH,M

0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BOECKOSIMUS-(ONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

BUTLER,K.S

0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

BUTLER,R.G

0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

BUTLER,S.O

0793 VERNBERG,F.J., ALTEKRUSE,E.B., BUTLER,S.O. PROCEEDINGS OF CONFERENCE ON OIL TANKER TRANSPORTATION: AN INTERDISCIPLINARY ANALYSIS OF NATIONAL AND INTERNATIONAL PULI $ SOUTH CAROLINA UNIV COLUMBIA AD-A080-085/4 250P. 1980

BUTOR,J.F

0666 RENOUX,A., BUTOR,J.F., JOUAN,M. EFFECT OF ACCIDENTAL POLLUTION OF THE OCEAN ON MARINE AEROSOL $ FAC SCI CRETEIL UNIV PARIS VAL DE MARNE CRETEIL FRANCE J ENVIRON SCI HEALTH PART A VOL A16 (4) P. 397-404 1981

BYE,W.E

1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204082 118P. 1979

BYESEDA,J.J

0758 SYLVESTER,N.D., BYESEDA,J.J. OIL/WATER SEPARATION BY INDUCED-AIR FLOTATION $ UNIV OF TULSA OKLA SPEJ SOC PET ENG J 20 (6) P. 579-590 1980

BYRDADE,J.D

0156 BYRDADE,J.D., TWEDELL,A.M., LEBOFF,J.P. HANDBOOK FOR OIL SPILL PROTECTION AND CLEANUP PRIORITIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-183394 145P. 1981

BYUTNER,E.K

0029 AKIEL,N.Z., BYUTNER,E.K., BORTKOVSKII,R.S., STROKINA,L.A. INFLUENCE OF OIL FILM POLLUTION OF THE OCEAN ON OXYGEN EXCHANGE WITH THE ATMOSPHERE $ SOV METEOROL HYDROL (2) P. 47-54 1979

CABIOCH,L

0076 BESLIER,A., BIRRIEN,J.L., CABIOCH,L., LARSONNEUR,C., LEBORGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

0157 CABIOCH,L., DAUVIN,J.C., BERMUDEZ,J.M., GABIO,C.R. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SUBLITTORAL BENTHOS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 192-208 1980

0158 CABIOCH,L. POLLUTION OF SUBTIDAL SEDIMENTS AND DISTURBANCE OF BENTHIC-ANIMAL COMMUNITIES $ ROSCOFF BIOL STN FR AMBIO 9 (6) P. 294-296 1980

CAIRNS,W.J

1097 CAIRNS,W.J., ROGERS,P.M. ONSHORE IMPACTS OF OFFSHORE OIL $ APPLIED SCIENCE PUBLISHERS LTD 1981

CALABRESE,A

0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

CALCULATIONS
0028 ARAVAMUDAN,K., RAJ,P.K., NEWMAN,E., TUCKER,W.A. BREAK-UP OF OIL ON ROUGH SEAS SIMPLIFIED MODELS AND STEP-BY-STEP CALCULATIONS $ COAST GUARD WASHINGTON, D.C. AD-A084-240/1 210P. 1979

CALDER,J.A
0032 ATLAS,R.M., BOEHM,P.D., CALDER,J.A. CHEMICAL AND BIOLOGICAL WEATHERING OF OIL FROM THE AMOCO-CADIZ SPILLAGE WITHIN THE LITTORAL ZONE $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY ESTUARINE COASTAL AND SHELF SCIENCE 12 (5) P. 589-608 1981

0802 WARD,D.M., ATLAS,R.M., BOEHM,P.D., CALDER,J.A. MICROBIAL BIODEGRADATION AND CHEMICAL EVOLUTION OF OIL FROM THE AMOCO-CADIZ SPILL $ MONT STATE UNIV BOZEMAN AMBIO 9 (6) P. 277-283 1980

CALDWELL,B.A
0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MORITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

CALDWELL,S
0961 ORMOND,R.F.G., CALDWELL,S. THE EFFECT OF OIL POLLUTION ON THE REPRODUCTION AND FEEDING BEHAVIOR OF THE SEA-ANEMONE ACTINIA-EQUINA $ UNIV YORK DEPT BIOL YORK N YORKSHIRE ENGLAND MARINE POLLUTION BULLETIN 13 (4) P. 118-122 1982

CALIFORNIA
0109 BRIGHT,D.B. WEST COAST OIL SPILLS A PROBABILITY ANALYSIS KEYED TO SOUTHERN CALIFORNIA $ ENVIRON FEASIBILITY STUD LOS ANGELES CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 45-51 1979

0119 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA EXECUTIVE SUMMARY $ PB-82-106352 45P. 1980

0120 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA TECHNICAL ANALYSIS $ PB-82-106360 675P. 1980

CALIFORNIA

0121 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA SUPPLEMENT $ PB-82-106378 90P. 1980

0129 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166093 577P. 1979

0130 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 2 REPORT 18-24 $ PB-80-166101 720P. 1979

0131 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166127 795P. 1979

0132 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 2 REPORTS 18-24 $ PB-80-166135 647P. 1979

0163 CARON,D.D. EMERGENCY DISPOSAL OF OIL SPILL AND WASTES IN NORTHERN AND CENTRAL CALIFORNIA $ US COAST GUARD SAN FRANCISCO CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SUMP P. 62-75 1980

0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

0527 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

0705 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME I $ PB-80-143704 203P. 1979

0706 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 1-7 $ PB-80-143712 400P. 1979

0707 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 8-15 $ PB-80-143720 395P. 1979

0708 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORTS 10-19 $ PB-80-143753 596P. 1979

CALIFORNIA
0709 SCIENCE APPLICATIONS INC LA-JOLLA CA SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME III METHODOLOGY REPORTS $ PB-80-166119 237P. 1979

0751 STRAUGHAN,D. DISTRIBUTION OF TAR AND RELATIONSHIP TO CHANGES IN INTERTIDAL ORGANISMS ON SANDY BEACHES IN SOUTHERN CALIFORNIA $ UNIV OF SOUTH CALIF LOS ANGELES PROC - OIL SPILL CONF LOS ANGELES CALIF P. 591-601 1979

0821 WOLFSON,M.W. VLCC LIGHTERING OPERATIONS IN SOUTHERN CALIFORNIA $ US COAST GUARD MAR SAFETY OFF SAN DIEGO CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 119-120 1979

0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

0992 VANBLARICOM,G.R., JAMESON,R.J. LUMBER SPILL IN CENTRAL CALIFORNIA WATERS IMPLICATIONS FOR OIL SPILLS AND SEA OTTERS $ US FISH AND WILDLIFE SERV SAN SIMEON CA SCIENCE 215 (4539) P. 1503-1505 1982

CALLAGHAN,D
0650 PULEY,J.P., CALLAGHAN,D. SELECTIVE OIL SPILL COMBAT PLANNING FOR OFFSHORE OPERATIONS $ SHELL INT PETR MIJ THE HAGUE NETHERLANDS IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 433-447 1981

CALLINECTES-SAPIDUS
0640 PEARSON,W.H., MILLER,S.E., BLAYLOCK,J.W., OLLA,B.L. DETECTION OF THE WATER SOLUBLE FRACTION OF CRUDE-OIL BY THE BLUE-CRAB CALLINECTES-SAPIDUS $ BATTELLE PAC NORTHWEST LAB MAR RES LAB SEQUIM WASH MAR ENVIRON RES 5 (1) P. 3-12 1981

CALM
0761 TAKAHASHI,T., KITAMURA,Y., NAKADA,K. SPREADING OF OIL SLICKS ON CALM WATER SURFACES EFFECT OF THE VISCOUS DRAG OF AN OIL SLICK ON ITS SPREADING RATE $ OKAYAMA UNIV JPN INT CHEM ENG 21 (2) P. 244-250 1981

CALMAN,J
0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

CAMBRIDGE
0374 INGRAO,H.C., HEIDERSBACH,R.H., SHARP,R.K. PIPELINE TRANSPORTATION SAFETY R AND D WORKING GROUP MEETING PROCEEDINGS HELD AT CAMBRIDGE MASSACHUSETTS ON JUNE 30-JULY 1 1980 $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-81-151359 70P. 1980

0460 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST WATER PORT FACILITIES STUDY APPENDIX A WESTERN GULF HYDROBIOLOGICAL ZONES $ AD-A091-404/4 154P. 1973

CAMBRIDGE

0461 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX D ADVERSE ENVIRONMENTAL EFFECTS $ AD-A091-406/9 96P. 1973

0462 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX B NORTH CENTRAL GULF HYDROBIOLOGICAL ZONES $ AD-A091-405/1 99P. 1973

0463 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY ENVIRONMENTAL ASSESSMENT $ AD-A091-403/6 94P. 1973

0464 LITTLE,A.D. INC CAMBRIDGE MA FEASIBILITY OF METHODS AND SYSTEMS FOR REDUCING LNG TANKER FIRE HAZARDS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 342P. 1980

CAMPECHE

0096 BUTELLO,A.V., CASTRO,S.A. BASE-LINE STUDIES FOR HYDROCARBONS AND ORGANIC-CARBON ISOTOPE RATIOS OF RECENT SEDIMENTS IN THE BANK OF CAMPECHE BEFORE THE IXTOC-1 OIL-SPILL $ NATL AUTONOMOUS UNIV MEXICO CTR CIENCIAS MAR AND LIMNOL MEXICO CITY ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 35P. 1980

0447 LEVENTHAL,F.D. THE BAY OF CAMPECHE OIL SPILL OBTAINING JURISDICTION OVER PETROLEOS-MEXICANOS UNDER THE FOREIGN SOVEREIGN IMMUNITIES ACT OF 1976 $ UNIV CALIF BERKELEY SCH LAW BERKELEY CA ECOLOGY LAW QUARTERLY 9 (2) P. 341-377 1981

0851 BOEHM,P.D., FLEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-1 BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

CAMPECHE-BAY

0342 HAYES,R.M. OPERATIONAL USE OF REMOTE-SENSING DURING THE CAMPECHE-BAY OIL WELL BLOWOUT $ US COAST GUARD OCEANOGR UNIT WASHINGTON, D.C. PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1187-1196 1980

CAMPION-ALSUMARD,T

0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

CANADA

0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

1010 WESTERN CANADA HYDRAULIC LABORATORIES LTD INVESTIGATION OF THE OPERATING PARAMETERS OF THE OIL SPILL CONTAINMENT AND RECOVERY (OSCAR) VESSEL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-5 OTTAWA ONTARIO 1981

CANADA'S

0511 MEIKLE,K.M. OIL SPILL COUNTERMEASURES FOR CANADA'S ICE-INFESTED WATERS $ DEP OF THE ENVIRON OTTAWA ONT ASME PAP N 81-PET-24 FOR MEET 7P. 1981

CANADIAN-ARCTIC

0448 LEVY,E.M. BACKGROUND LEVELS OF PETROLEUM RESIDUES IN BAFFIN-BAY AND THE EASTERN CANADIAN-ARCTIC ROLE OF NATURAL SEEPAGE $ FISHERIES AND OCEANS CANADA BEDFORD INST OCEANOG ATLANTIC OCEANOG LAB DARTMOUTH NS CANADA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 345-362 1981

CANCER-IRRORATUS

0384 JOHNS,D.M., PECHENIK,J.A. INFLUENCE OF THE WATER-ACCOMMODATED FRACTION OF NO.-2-FUEL-OIL ON ENERGETICS OF "CANCER-IRRORATUS" LARVAE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT, RI PB-81-185720 10P. 1981

0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSWORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

CANCER-MAGISTER

0618 OLLA,B.L., PEARSON,W.H., SUGARMAN,P.C., WOODRUFF,D.L., BLAYLOCK,J.W. THE EFFECTS OF PETROLEUM HYDROCARBONS ON CHEMORECEPTION AND BEHAVIOR IN THE DUNGENESS-CRAB "CANCER-MAGISTER" $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-82-116716 83P. 1981

0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

CANCERIRRORATUS

0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIRRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

CANEVARI,G.P
0159 CANEVARI,G.P. RESTORATION OF OILED SHORELINES BY THE PROPER USE OF CHEMICAL DISPERSANTS $ EXXON RES AND ENG CO FLORHAM PARK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 443-446 1979

0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.H., CANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-18 1980

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

0866 CANEVARI,G.P. THE FORMULATION OF AN EFFECTIVE DEMULSIFIER FOR OIL SPILL EMULSIONS $ EXXON RES ENG CO FLURHAM PARK NJ MAR POLLUT BULL 13 (2) P. 49-54 1982

CAPABILITY
0655 PSARAFTIS,H., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ MIT CAMBRIDGE MASS OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 407-414 1980

0656 PSARAFTIS,H.N., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-223109 9P. 1980

CAPE
0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

CAPE-HATTERAS
0133 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME 1 BOOK 3 CHAPTERS XV-XX $ PB-80-177488 990P. 1977

0134 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME II MASTER BIBLIOGRAPHY INDEX ACKNOWLEDGEMENTS $ PB-80-177496 516P. 1977

0135 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME III APPENDIX A, B.AND C $ PB-80-177504 511P. 1977

CAPLINE
0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

CAPRICORN
0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1980

CAPUZZO,J.M
0160 CAPUZZO,J.M. CRUDE-OIL EFFECTS TO DEVELOPMENTAL STAGES OF THE AMERICAN LOBSTER $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-82-117656 108P. 1981

CARBONIZATION
0110 BRITISH CARBONIZATION RESEARCH ASSOCIATION CHESTERFIELD ENGLAND PROCEEDINGS OF THE SYMPOSIUM ON TAR ACID-EXTRACTION 11 APRIL 1978 $ 59P. 1979

CARCINOGENICITY
0716 SHEFNER,A.M. RESPIRATORY CARCINOGENICITY OF DIESEL-FUEL EMISSIONS $ III RESEARCH INST CHICAGO IL PB-81-230955 35P. 1981

CARD
0201 COX,J.M., EBBESMEYER,C.C., HELSETH,J.M., COUMES,C.A. DRIFT CARD OBSERVATIONS IN NORTHWESTERN WASHINGTON ALONG PORTIONS OF TWO PROPOSED OIL PIPELINE ROUTES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-173833 196P. 1980

CARD,J.C
0161 CARD,J.C., COJEEN,H.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-711/3 174P. 1979

CARGO
0084 BJORKLUND,R.A., KUSHIDA,R.O. FLASHBACK FLAME-ARRESTER DEVICES FOR FUEL CARGO TANK VAPOR VENTS $ COAST GUARD WASHINGTON, D.C. AD-A100-040/5 127P. 1981

0176 CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA CARGO FIRE HAZARDS AND HAZARD CONTROL FOR THE SUPPLEMENT FUEL SUPPLY ASSEMBLY (SFSA) $ 44P. 1980

0225 DOYLE,P.F. CARGO TANK REGISTRATION STATISTICS $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-80-217169 424P. 1980

CARLBERG,S.R
0162 CARLBERG,S.R. OIL POLLUTION OF THE MARINE ENVIRONMENT WITH AN EMPHASIS ON ESTUARINE STUDIES $ NATL BOARD FISHERIES DEPT HYDROG GOTEBORG SWEDEN IN: OLAUSSON,E., CATO,I. CHEMISTRY AND BIUEOCHEMISTRY OF ESTUARIES P. 367-402 1980

CARLSON,R.E
0867 CARLSON,R.E. THE BIOLOGICAL DEGRADATION OF SPILLED JET-FUELS: A LITERATURE REVIEW $ AIR FORCE ENGINEERING AND SERVICES CENTER TYNDALL AFB FL AD-A110-758/0 41P. 1981

CAROLINA
0884 ERNST,W.D., GUNDLACH,E.R., THEBEAU,L.C., SADD,J.L. SENSITIVITY OF COASTAL ENVIRONMENTS TO SPILLED OIL: SOUTHERN CAROLINA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-188061 47P. 1982

CARON,D.A
0868 CARON,D.A., SIEBURTH,J.M.C.N. RESPONSE OF PELTRICHOUS-CILIATES IN FOULING COMMUNITIES TO SEAWATER ACCOMMODATED HYDROCARBONS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-181850 23P. 1982

CARON,D.D
0163 CARON,D.D. EMERGENCY DISPOSAL OF OIL SPILL AND WASTES IN NORTHERN AND CENTRAL CALIFORNIA $ US COAST GUARD SAN FRANCISCO CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SUMP P. 62-75 1980

CARRANZAFRASER,J
0164 CARRANZAFRASER,J., SALGADO,M. PRELIMINARY RESULTS OF INVESTIGATIONS ON THE EFFECT OF THE IXTOC-I OIL SPILL ON THE ECOLOGY AND FISHERIES OF THE GULF OF MEXICO $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 33P. 1980

CARRIAGE
0431 LEBACK,W.G. CARRIAGE OF LNG "EM-DASH" THE STATE OF THE ART $ EL PASO LNG CO TEX PROC OF THE TANKER CONF TARPON SPRINGS FLA P. 174-201 1978

CARRIER
0481 MAGOTT,R.J., BASS,R.L. III, MORROW,T.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

CARRIERS
0570 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA NATURAL-GAS: BULK CARRIERS JANUARY 1974-JULY 1981 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB-81-872269 75P. 1981

0574 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA DAMAGE DETECTION SYSTEM FOR LNG CARRIERS: AN ACOUSTICAL DAMAGE DETECTION SYSTEM FOR SAFER LNG CARRIERS $ PB-80-975240 1P.

CARSIN,M.J.L
0165 CARSIN,M.J.L. THE AMOCO-CADIZ OIL SPILL: BEHAVIOR OF HER HYDROCARBONS IN THE MARINE ENVIRONMENT $ ETABL PRINC SERV HYDROG OCEANOGR MAR PARIS FR ANN HYDROGR 754 P. 19-43 1980

CARSON,A.I
0797 VINEGAR,A., CARSON,A.I., PEPELKO,W.E. PULMONARY FUNCTION CHANGES IN CHINESE HAMSTERS EXPOSED SIX MONTHS TO DIESEL EXHAUST $ DEP ENVIRON HEALTH UNIV CINCINNATI OHIO PROC INT SYMP PB-81-13817 P. 749-56 1980

CARSTENS,T
0166 CARSTENS,T., SENDSTAD,E. OIL SPILL ON THE SHORE OF AN ICE-COVERED FJORD IN SPITSBERGEN $ RIVER AND HARBOUR LAB TRONDHEIM NORWAY IN: NORWEGIAN INST TECHNOL PROC 79: THE 5TH INTERNATIONAL CONF ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS VOL 2 P. 1227-1242 1979

CARTRIDGES
0969 KADOSKI,E. REMOVAL OF HYDROCARBON TASTE AND ODOR FROM POTABLE WATER BY REPLACEABLE CARBON CONTAINING FILTER CARTRIDGES $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A107-878/1 21P. 1981

CARVEN,C.J
0167 CARVEN,C.J. OIL SPILL LIABILITY AND COMPENSATION $ EXXON CORP NEW YORK NY PROC - OIL SPILL CONF LOS ANGELES CALIF P. 7-10 1979

CASE
0154 BURNS,K.A., SMITH,J.L. BIOLOGICAL MONITORING OF AMBIENT WATER QUALITY THE CASE FOR USING BIVALVES AS SENTINEL ORGANISMS FOR MONITORING PETROLEUM POLLUTION IN COASTAL WATERS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ESTUARINE COASTAL AND SHELF SCIENCE 13 (4) P. 433-443 1981

0390 JUHASZ,F. ECONOMIC EVALUATION OF THE ENVIRONMENTAL EFFECTS OF OIL POLLUTION A PRACTICAL LESSON USING THREE CASE HISTORIES $ OECD PARIS FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 53-58 1979

0796 VILLAUME,J.F., HERRE,B.H., VOYKIN,D.P. CLEANUP OF AN OIL SPILL INTO GROUND-WATER AT WILLIAMSPORT PENNSYLVANIA A CASE HISTORY $ PA POWER AND LIGHT CO ALLENTOWN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 501-505 1979

0912 JERNELUEV,A., LINDEN,O. IXTOC-1: A CASE STUDY OF THE WORLD'S LARGEST OIL SPILL $ SWED WATER AND AIR POLLUT RES INST STOCKHOLM AMBIO 10 (6) P. 299-306 1981

1070 WESTGAARD,R.H. WELL CONTROL IN CASE OF OFFSHORE BLOWOUT - REPORT #1 AND WORK DOCUMENT #13 $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING NORWAY 1981

CASTELLANOS,T.R
0206 CUEVAS,P.A., FLORES,R.G.C., CASTELLANOS,T.R. GAS-CHROMATOGRAPHY AS A TECHNIQUE FOR OIL SPILL SOURCE IDENTIFICATION $ CROMATOGRAFIA DE GAS COMO TECNICA PARA LA IDENTIFICACION DE FUENTES DE DERRAME DE CRUDO INST MEX DEL PET MEXICO CITY REV INST MEX PET 12 (4) P. 30-41 1980

CASTLE,R.W
0168 CASTLE,R.W., SCHRIER,E. DECISION CRITERIA FOR THE CHEMICAL DISPERSION OF OIL SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 459-463 1979

0696 SARTOR,J.D., CASTLE,R.W. CONTINGENCY PLANNING FOR LIQUID PIPELINE SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF ASME PAP N 81-PET-12 FOR MEET 8P. 1981

CASTRO,S.A
0096 BOTELLO,A.V., CASTRO,S.A. BASE-LINE STUDIES FOR HYDROCARBONS AND ORGANIC-CARBON ISOTOPE RATIOS OF RECENT SEDIMENTS IN THE BANK OF CAMPECHE BEFORE THE IXTOC-1 OIL-SPILL $ NATL AUTONOMOUS UNIV MEXICO CTR CIENCIAS MAR AND LIMNOL MEXICO CITY ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 35P. 1980

CASUALTY
0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

0182 COAST GUARD WASHINGTON, D.C. DEVELOPING TANKER CASUALTY AND TANKER TRAFFIC DATABASES FOR 1969-1977 $ AD-A085-655/9 384P. 1979

CATALOGUE
1051 PURVES,W.F. A CATALOGUE OF OIL SPILL UTILITY PUMPS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-24 OTTAWA ONTARIO 1981

CATS
0642 PEPELKO,W.E., MATTOX,J.K., YANG,Y.Y., MOORE,W. JR. PULMONARY FUNCTION AND PATHOLOGY IN CATS EXPOSED 28 DAYS TO DIESEL EXHAUST $ HEALTH EFFECTS RESEARCH LAB CINCINNATI OHIO PB-81-196578 11P. 1980

CAUSES
0687 SAGE,B. RUPTURES IN THE TRANS-ALASKA OIL PIPELINE CAUSES AND EFFECTS $ AMBIO 9 (5) P. 262-263 1980

1098 WATERS,W.G., HEAVER,T.D., VERRIER,T. OIL POLLUTION FROM TANKER OPERATIONS -- CAUSES COSTS CONTROLS $ CENTRE FOR TRANSPORTATION STUDIES VANCOUVER CANADA 1980

CAVAGNARO,D.M
0169 CAVAGNARO,D.M. OIL POLLUTION DETECTION AND SENSING 1976-NOVEMBER 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-800997 187P. 1980

CAVERN
0764 TAYLOR,A. STRATEGIC PETROLEUM RESERVE WEST HACKBERRY OIL STORAGE CAVERN FIRE AND SPILL OF SEPTEMBER 21 1978: AN ENVIRONMENTAL ASSESSMENT FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 680P. 1980

CAVERNS
0768 THUNVIK,R., BRAESTER,C. MODELING OF GROUND-WATER FLOW AROUND OIL STORAGE CAVERNS $ ROYAL INST TECHNOL DEPT LAND IMPROVEMENT AND DRAINAGE STOCKHOLM SWEDEN APPLIED MATHEMATICAL MODELLING 4 (3) P. 225-227 1980

CAVIN,W.D
0385 JOHNSON,D.W., MARTINSEN,W.E., CAVIN,W.D., CHILTON,P.D., LAWSON,H.P. CONTROL AND EXTINGUISHMENT OF LPG FIRES FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 124P. 1980

CAZABAT,A.M
0653 POUCHELON,A., MEUNIER,J., LANGEVIN,D., CHATENAY,D., CAZABAT,A.M. LOW INTERFACIAL-TENSIONS IN 3 PHASE SYSTEMS OBTAINED WITH OIL-WATER- SURFACTANT MIXTURES $ ECOLE NORM SUPER SPECT HERTZIENNE LAB PARIS FRANCE CHEMICAL PHYSICS LETTERS 76 (2) P. 277-281 1980

CEBRON,E.J
0662 RATH,R.J., MCKENZIE,J.H., CEBRON,E.J., HAMMOND,J.G. PUGET-SOUND TANKER SIZE OPTIMIZATION $ OCEANOGRAPHIC INST OF WASHINGTON SEATTLE AD-A102-496/7 222P. 1981

CECE,J.M
0635 PARNAROUSKIS,M.C., TAYLOR,M.W., LIND,C.D., RAJ,P.P.K., CECE,J.M. VAPOR CLOUD EXPLOSION STUDY $ US COAST GUARD WASHINGTON, D.C. CONGR INT SUR LE GAZ NAT LIQUEFIE 6TH 2 16P. 1980

CEDERWALL,R.T
0718 SHINN,J.H., CEDERWALL,R.T. SELECTING OPTIMUM PERIODS FOR ATMOSPHERIC DISPERSION TESTS OVER WATER SURFACES AT FRENCHMAN FLAT NEVADA TEST SITE $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 12P. 1981

CEKIRGE,H.M
0444 LEHR,W.J., BELEN,M.S., CEKIRGE,H.M. SIMULATED OIL SPILLS AT 2 OFFSHORE FIELDS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV RES INST DIV WATER AND ENVIRON DHAHRAN SAUDI ARABIA MARINE POLLUTION BULLETIN 12 (11) P. 371-374 1981

0445 LEHR,W.J., CEKIRGE,H.M. OIL SLICK MOVEMENTS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV DEPT MATH SCI DHAHRAN SAUDI ARABIA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 737-741 1981

CELLS
0788 VASHCHENKO,M.A. EFFECTS OF OIL POLLUTION ON THE DEVELOPMENT OF SEX CELLS IN SEA-URCHINS $ ACAD SCI USSR HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 297-30 1980

CELLULOSE-ACETATE
0416 KUTOWY,O., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES COUNC OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

CEREALS
0210 DE JONG,E. EFFECT OF A CRUDE-OIL SPILL ON CEREALS $ UNIV OF SASK SASKATOON ENVIRON POLLUT SER A 22 (3) P. 187-196 1980

CHAFARIS,G
0012 ALVARADO,U.R., CHAFARIS,G., CHESTEK,J., CONRAD,J., FRIPPEL,G. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: TECHNICAL VOLUME EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 464P. 1980

CHAMBERLAIN,C.P
0892 FRAME,G.M., FLANIGAN,G.A., CHAMBERLAIN,C.P. CLEANUP PROCEDURE FOR CONTAMINATED OILS PRIOR TO FINGERPRINTING BY GAS-CHROMATOGRAPHY AND INFRARED-SPECTROSCOPY $ US COAST GUARD CTR RES AND DEV GROTON CT BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 29 (1) P. 29-36 1982

CHANG,H.R
0170 CHANG,H.R., REID,R.C. SIMULTANEOUS BOILING AND SPREADING OF LIQUEFIED-PETROLEUM-GAS ON WATER FINAL REPORT DECEMBER 12 1978-MARCH 31 1981 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 38P. 1981

CHANG,R.K
0171 CHANG,R.K., BENNER,R.E. LASER-RAMAN POINT MONITORING OF METHANE VAPOR IN THE LNG STORAGE FIELD $ DEP ENG APPL SCI YALE UNIV NEW HAVEN CT PB-80-205347 39P. 1979

CHAU,A
1001 YANG,W.F., CHAO,A., SMALLWOOD,C. JR. LAND TREATMENT OF OILY WASTES REDUCTION OF CRUDE-OIL IN SOILS $ INST ENVIRON ENG NATL TAIWAN UNIV TAIPEI TAIWAN TW PROC IND WASTE CONF 36 P. 8549 1982

CHAPANIS,A
0172 CHAPANIS,A. HUMAN FACTORS ENGINEERING FOR SAFETY $ PROF SAF 25 (7) P. 16-25 1980

CHARACTERIZATION
0175 CHMIELOWIEC,J., BESHAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN LLOYDMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

CHARACTERIZATION

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.R., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

0812 WHITTLE,P.J., HORNE,M.W. CHARACTERIZATION OF OIL SPILLS ON INLAND AND ESTUARINE WATERS $ NORTH WEST WATER AUTH WARRINGTON ENGL J INST WATER ENG SCI 34 (1) P. 50-60 1980

CHARACTERIZATIONS

0712 SERRAJIAN,M.M. ENVIRONMENTAL DATA ENERGY TECHNOLOGY CHARACTERIZATIONS: PETROLEUM $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 81P. 1980

CHARACTERIZING

0688 SAINTPAUL,C., MONIN,J.C., DURAND,B. FAST METHOD FOR CHARACTERIZING C-1 TO C-35 HYDROCARBONS CONTAINED IN SEDIMENTARY-ROCKS AND IN OILS $ INST FRANCAIS PETR PARIS FRANCE REVUE DE L INSTITUT FRANCAIS DU PETROLE 35 (6) P. 1065-1078 1980

CHARLES,M.E

0314 GREENE,G.D., BRODSKY,A.Z., CHARLES,M.E., MALNAY,D. USE OF DEFLECTORS FOR DEPLOYMENT OF OIL BOOMS IN RIVERS $ ESSO RESOUR CAN LTD CALGARY ALBERTA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 411-417 1979

CHARLTON,S

0470 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

0471 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

CHARLTON,T.J

0503 MCCRACKEN,W.F., CHARLTON,T.J., FREESTONE,F.J. OIL POLLUTION PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRON ASSESS COUNC INC NEW BRUNSWICK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 213-216 1979

CHARNES,A
0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

CHATENAY,D
0653 POUCHELON,A., MEUNIER,J., LANGEVIN,D., CHATENAY,D., CAZABAT,A.M. LOW INTERFACIAL-TENSIONS IN 3 PHASE SYSTEMS OBTAINED WITH OIL-WATER- SURFACTANT MIXTURES $ ECOLE NORM SUPER SPECT HERTZIENNE LAB PARIS FRANCE CHEMICAL PHYSICS LETTERS 76 (2) P. 277-281 1980

CHAUDE,O
0347 HERMANN,M., CHAUDE,O., WEILL,N., BEDOUELLE,H., HOFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

CHAUMAN,K.J
0869 CHAUMAN,K.J., GUYAL,K.L. HAZARDS AND REMEDY OF OIL SPILLS $ OIL AND NAT GAS COMM DEHRA DUN INDIA PROC OF THE WORLD PET CONGR 10TH 5 P. 31-37 1980

CHEMICALLY
0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.H., CANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-18 1980

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1980

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

1061 MACKAY,D., HOSSAIN,K. AN EXPLORATORY STUDY OF SEDIMENTATION OF NATURALLY AND CHEMICALLY DISPERSED OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-35 OTTAWA ONTARIO 1982

CHEMICALS
1093 ANONYMOUS APPLICATION AND ENVIRONMENTAL EFFECTS OF OIL SPILL CHEMICALS $ INTERNATIONAL PETROLEUM INDUSTRY ENVIRONMENTAL CONSERVATION ASSOCIATION LONDON 1980

CHEMISTRY
0122 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY EXECUTIVE SUMMARY 1977 $ PB-82-106692 94P. 1978

0123 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME I CHAPTERS 1-10 $ PB-81-106718 660P. 1979

0124 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME II CHAPTERS 11-21 $ PB-81-106726 604P. 1979

0128 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975 BIOLOGY AND CHEMISTRY $ PB-81-137689 625P. 1976

1020 GREEN,D.R. CHEMISTRY 1 FIELD SAMPLING AND ENVIRONMENTAL CHEMISTRY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-1 OTTAWA ONTARIO 1981

1021 BUEHM,P.D. CHEMISTRY 2 HYDROCARBON CHEMISTRY $ BAFFIN ISLAND OIL SPILL WORKING REPORT # BIOS-80-2 OTTAWA ONTARIO 1981

1100 SPEIGHT,J.G. THE CHEMISTRY AND TECHNOLOGY OF PETROLEUM $ MARCEL DEKKER INC NEW YORK 1980

CHEMORECEPTION
0618 ULLA,B.L., PEARSON,W.H., SUGARMAN,P.C., WOODRUFF,D.L., BLAYLOCK,J.W. THE EFFECTS OF PETROLEUM HYDROCARBONS ON CHEMORECEPTION AND BEHAVIOR IN THE DUNGENESS-CRAB "CANCER-MAGISTER" $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-82-116716 83P. 1981

0837 ATEMA,J., KARNOFSKY,E.B., OLESZKO-SZUTS,S., BRYANT,B. LOBSTER BEHAVIOR AND CHEMORECEPTION: SUBLETHAL EFFECTS OF NUMBER-2-FUEL-OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-192444 71P. 1982

CHENG,A.H.D
0469 LIU,H., CHENG,A.H.D. MODIFIED FICKIAN MODEL FOR PREDICTING DISPERSION $ UNIV OF MO COLUMBIA ASCE J HYDRAUL DIV 106 (6) P. 1021-1040 1980

CHESAPEAKE-BAY
0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

CHESLER,S.N
0819 WISE,S.A., CHESLER,S.N., HERTZ,H.S., MAY,W.E., GUENTHER,F.R. DETERMINATION OF TRACE LEVEL HYDROCARBONS IN MARINE BIOTA $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-126278 11P. 1980

CHESLER,S.N
0820 WISE,S.A., CHESLER,S.N., GUENTHER,F.R., HERTZ,H.S. HILPERT,L.R. INTERLABORATORY COMPARISON OF DETERMINATIONS OF TRACE LEVEL HYDROCARBONS IN MUSSELS $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-140253 6P. 1980

CHESTEK,J
0012 ALVARADO,U.R., CHAFARIS,G., CHESTEK,J., CONTRAD,J., FRIPPEL,G. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: TECHNICAL VOLUME EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 464P. 1980

CHIANG,S.Y.H
1106 CHIANG,S.Y.H. APPLICATION OF FLAME AND FLAMELESS ATOMIC-ABSORPTION METHODS TO THE "FINGERPRINTING" OF SPILLS ON WATER MEDIA OF NON-DISTILLATE PETROLEUM OILS $ CONCORDIA UNIVERSITY MONTREAL QUEBEC CANADA 1980

CHILTON,P.D
0385 JOHNSON,D.W., MARTINSEN,W.E., CAVIN,W.D., CHILTON,P.D., LAWSON,H.P. CONTROL AND EXTINGUISHMENT OF LPG FIRES FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 124P. 1980

CHLAMYS-ISLANDICUS
0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIRRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

CHLORINATED
0723 SIMPSON,K.W. ABNORMALITIES IN THE TRACHEAL GILLS OF AQUATIC INSECTS COLLECTED FROM STREAMS RECEIVING CHLORINATED OR CRUDE-OIL WASTES $ NEW YORK STATE DEPT HLTH DIV LABS AND RES ALBANY NY FRESHWATER BIOLOGY 10 (6) 581P. 1980

CHLORINATION
0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BRUNGS,W.A., CUMMING,R.B. WATER CHLORINATION 3 P. 845-850 1980

CHMIELOWIEC,J
0175 CHMIELOWIEC,J., BESHAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN LLOYDMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

CHOCOLATE-MOUSSES
0108 BRIDIE,A.L., WANDERS,TH.H., ZEGVELD,W., VAN DER HEIJDE,H.B. FORMATION PREVENTION AND BREAKING OF SEA WATER IN CRUDE-OIL EMULSIONS "CHOCOLATE-MOUSSES" $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

CHURN,L.G
0151 BURGER,E.D., CHURN,L.G., PERKINS,T.K. STUDIES OF DRAG REDUCTION CONDUCTED OVER A BROAD RANGE OF PIPELINE CONDITIONS WHEN FLOWING PRUDHOE-BAY CRUDE-OIL $ ARCO OIL AND GAS CO DALLAS TX JOURNAL OF RHEOLOGY 24 (5) P. 603-626 1980

CHRISTOVA,L.R
0061 BELKEVICH,P.I., KOVZUN,A.A., SOBOL,M.I., CHRISTOVA,L.R. ORGANOPHILIC-PEAT SORBENT FOR REMOVING OILS AND PETROLEUM PRODUCTS FROM WASTEWATERS $ ACAD SCI BESSR INST PEAT MINSK BESSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (11) P. 1796-1799 1980

CHROMATOGRAPHIC
0356 HOFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

CHROMATOGRAPHY
0603 NOMURA,A., MORITA,Y., KOGURE,T. NITROGEN COMPOUNDS IN PETROLEUM "EM-DASH" 4 DISTRIBUTION PROFILES OF NITROGEN COMPOUNDS IN PETROLEUM BY SOLID-LIQUID CHROMATOGRAPHY $ NATL CHEM LAB FOR IND TOKYO JPN BULL CHEM SOC JPN 52 (3) P. 817-820 1979

CHRONIC
0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN MERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

0345 HENNING,H.F.K.O., FRICKE,A.H. RECOVERY POTENTIAL AND CHRONIC OIL POLLUTION ON THE SOUTH-AFRICAN COAST $ UNIV CAPE TOWN NATL RES INST OCEANOL DEPT OCEANOG RONDEBOSCH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (10) P. 301-302 1980

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

0864 BURNS,K.A., SMITH,J.L. HYDROCARBONS IN VICTORIAN COASTAL ECOSYSTEMS (AUSTRALIA) - CHRONIC PETROLEUM INPUTS TO WESTERN PORT AND PORT-PHILLIP BAYS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (2) P. 129-140 1982

CHRONIC
0962 UVIATT,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

0987 STEKOLL,M.S., CLEMENT,L.E., SHAW,D.G. SUBLETHAL EFFECTS OF CHRONIC OIL EXPOSURE ON THE INTERTIDAL CLAM "MACOMA-BALTHICA" $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB82-158163 12P. 1982

CHURSHUKOV,E.S
0174 CHURSHUKOV,E.S., MAIKO,L.P., ZAKHAROVA,N.N., KUZNETSOV,V.A. EVALUATION OF WATER-DISPLACING ABILITY OF OILS BY ELECTROCHEMICAL METHOD $ CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (9-10) P. 766-767 1979

CILIATE-PROTOZOA
0676 ROGERSON,A., BERGER,J. THE TOXICITY OF THE DISPERSANT COREXIT-9527 AND OIL DISPERSANT MIXTURES TO CILIATE-PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CHEMOSPHERE 10 (1) P. 33-39 1981

CLAM
0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

0987 STEKOLL,M.S., CLEMENT,L.E., SHAW,D.G. SUBLETHAL EFFECTS OF CHRONIC OIL EXPOSURE ON THE INTERTIDAL CLAM "MACOMA-BALTHICA" $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB82-158163 12P. 1982

CLARK,B.R
0354 HO,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., RAO,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

0661 RAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HO,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

CLARK,R.B

0870 CLARK,R.B. THE LONG-TERM EFFECT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS SOME QUESTIONS $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 185-192 1982

0871 CLARK,R.B. THE IMPACT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS A SUMMING -UP $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 433-443 1982

CLARK,R.C

0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-168 1981

CLASSIFICATION

1066 MYERS,A. CURRENT BIBLIOGRAPHY OF OFFSHORE TECHNOLOGY AND OFFSHORE LITERATURE CLASSIFICATION $ ASR MARKETING BERKHAMSTED HERTZ 1981

1135 ANONYMOUS GUIDANCE NOTES FOR THE CONSTRUCTION AND CLASSIFICATION OF OIL RECOVERY SHIPS $ LLOYD'S REGISTRY OF SHIPPING LONDON 1980

CLAUSSE,M

0177 CLAUSSE,M., BONED,C., PEYRELASSE,J., LAGOURETTE,B. , MCCLEAN,V., SHEPPARD,R.J. DIELECTRIC AND CONDUCTIVE PROPERTIES OF WATER-IN-OIL TYPE MICRO-EMULSIONS $ UNIV PAU AND PAYS ADOUR INST RECH SCI DEPT PHYS THERMODYNAM LAB PAU FRANCE IN: SHAH,D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 199-228 1981

CLEAN-UP

0282 RUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE HAGUE NETH CONCAWE REP (7) 155P. 1981

0523 MORRIS,P.R. CLEAN-UP OF OIL POLLUTION AT SEA $ WARREN SPRING LAB STEVENAGE HERTFORDSHIRE ENGL PROC EUR OFFSHORE PET CONF EXHIB 1 P. 141-148 1980

0810 WHITE,I.C., NICHOLS,J.A., GARNETT,M.J. TEN YEAR OVERVIEW OF OIL SPILL CLEAN-UP AT SEA $ POLLUT FED LTD LONDON ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 247-251 1979

0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP 1 WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

CLEAN-UP

0814 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP II THE EVALUATION OF OIL ABSORBABILITY OF NATURAL SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 29-35 1981

0844 BIDWELL,J.B. OIL SPILL CLEAN-UP: AN ECONOMIC AND REGULATORY MODEL $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB82-147489 30P. 1981

0911 HUPKA,J. DETERMINATION OF THE SORPTION CAPACITY OF SORBENTS USED TO CLEAN-UP OIL SPILLS $ POL PL STUD WATER OCEANOL 35 P. 261-78 1981

0996 WIDAYAT,K.P., MOERDOKO,W., WINIATI,W., HAGIWARA,K. HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP III FORMATION AND EVALUATION OF THE NATURAL SORBENTS $ OSAKA IND RES INST OSAKA JAPAN OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (4) P. 269-75 1981

1112 RUSSELL,D.R., GUDJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE 1981

CLEANING

0092 BUCARD,C., RENAULT,P., CROQUETTE,J. CLEANING PRODUCTS USED IN OPERATIONS AFTER THE AMOCO-CADIZ DISASTER $ INST FR DU PET RUEIL MALMAISON FR PROC - OIL SPILL LOS ANGELES CALIF P. 163-167 1979

0203 CROQUETTE,J., GATELLIER,C. USE OF BEACH CLEANING- AGENTS AND THEIR EFFECTS ON OIL SPILLS $ CEDRE BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACID HYDROCARBURES ACTES COLLOQ INT P. 821-36 1979

0328 HALL,J.O. INVESTIGATION OF CLEANING PROCEDURES FOR CONVERTING PETROLEUM TANKERS TO POTABLE WATER SERVICE $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A105-633/2 50P. 1981

0660 RANDALL,R.M., RANDALL,B.M., BEVAN,J. OIL POLLUTION AND PENGUINS IS CLEANING JUSTIFIED $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (8) P. 234-237 1980

0752 STRICKLAND,W.T. JR. LABORATORY RESULTS OF CLEANING PRODUCED WATER BY GAS FLOTATION $ SHELL DEV CO SOC PET ENG AIME J 20 (3) P. 175-190 1980

CLEANS

0397 KARWAN,K.R., STONE,C.M. WHO CLEANS UP THE OIL? A MICROECONOMIC STUDY $ TULANE UNIV NEW ORLEANS LA ENVIRON INT 3 (2) P. 193-200 1980

CLEANUP

0064 BELLIER,P., MASSART,G. AMOCO-CADIZ OIL-SPILL CLEANUP OPERATIONS AN OVERVIEW OF THE ORGANIZATION CONTROL AND EVALUATION OF THE CLEANUP TECHNIQUES EMPLOYED $ CEDRE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 141-146 1979

0081 BIANCHI,R.A. THE ECONOMICS OF OIL SPILLED CLEANUP $ JBF SCI CORP WILMINGTON MA MARINE TECHNOLOGY 18 (4) P. 335-341 1981

0118 BUHITE,T.R. CLEANUP OF A COLD WEATHER TERRESTRIAL PIPELINE SPILL $ ALYESKA PIPELINE SERV CO ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 367-369 1979

0156 BYROADE,J.D., TWEDELL,A.M., LEBOFF,J.P. HANDBOOK FOR OIL SPILL PROTECTION AND CLEANUP PRIORITIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-183394 145P. 1981

0251 FARLOW,J.S. (ED), SWANSON,C. (ED) DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION (SYMPOSIUM) 1978 $ EPA OFF OF RES AND DEV EDISON NJ ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP 147P. 1978

0330 HANN,R.W. JR. UNIT OPERATIONS UNIT PROCESSES AND LEVEL OF RESOURCE REQUIREMENTS FOR THE CLEANUP OF THE OIL SPILL FROM THE SUPERTANKER AMOCO-CADIZ $ TEX A AND M UNIV COLLEGE STATION PROC - OIL SPILL CONF LOS ANGELES CALIF P. 147-161 1979

0369 HUTCHISON,J.H., SIMONSEN,B.L. CLEANUP OPERATIONS AFTER THE 1976 SS-SANSINENA EXPLOSION AN INDUSTRIAL PERSPECTIVE $ IT CORP WILMINGTON CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 429-434 1979

0373 IMBRIE,R.J., KARWAN,K.R. COMPUTER SEARCHING FOR POLLUTION CLEANUP EQUIPMENT $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 257-260 1979

0399 KAZMIERCZAK,L.J. OIL SPILL CLEANUP AND CONTAINMENT $ SUN CO INC PHILADELPHIA PA IN: NATL ACAD SCI OUTER CONTINENTAL SHELF FRONTIER TECHNOLOGY P. 179-208 1980

0446 LEIGH,J.T. SPILL CONTAINMENT AND CLEANUP RESEARCH AND DEVELOPMENT $ US COAST GUARD OFF RES AND DEV ENVIRONM TECHNOL BRANCH WASHINGTON, D.C. MARINE TECHNOLOGY 18 (4) P. 342-343 1981

0474 LUDWIGSON,J.O. (ED) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1979 $ PROC - OIL SPILL CONF LOS ANGELES CALIF 728P. 1979

0630 PAGE,D.G. COMPUTER-MODEL WILL AID OIL SPILL CLEANUP EFFORTS $ MIT SEA GRANT COLL PROGRAM CAMBRIDGE MA SEA TECHNOLOGY 21 (9) P. 10-12 1980

0699 SCHIFF,D. OIL SPILL CLEANUP CAN BE EFFECTIVE AND SELF SUPPORTING $ ENVIRON INT 3 (2) P. 189-192 1980

CLEANUP

0796 VILLAUME,J.F., HERRE,B.H., VOYKIN,D.P. CLEANUP OF AN OIL SPILL INTO GROUND-WATER AT WILLIAMSPORT PENNSYLVANIA A CASE HISTORY $ PA POWER AND LIGHT CO ALLENTOWN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 501-505 1979

0856 BREUEL,A. (ED.) OIL SPILL CLEANUP AND PROTECTION TECHNIQUES FOR SHORELINES AND MARSH LANDS $ POLLUT TECHNOL REV (78) 404P. 1981

0892 FRAME,G.M., FLANIGAN,G.A., CHAMBERLAIN,C.P. CLEANUP PROCEDURE FOR CONTAMINATED OILS PRIOR TO FINGERPRINTING BY GAS-CHROMATOGRAPHY AND INFRARED-SPECTROSCOPY $ US COAST GUARD CTR RES AND DEV GROTON CT BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 29 (1) P. 29-36 1982

0931 MERCER,B.W., NAKAMIYA,W., PETTY,S.E., STRAND,J.A., MAHLUM,D.D. ASSESSMENT OF SYNFUEL SPILL CLEANUP OPTIONS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 15P. 1981

0964 PARROTTE,R.B. (ED.) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1981 $ PROC - 1981 OIL SPILL CONF (PREV BEHAV CONTROL CLEANUP) ATLANTA GA 742P. 1981

1008 HARDY ASSOCIATES (1978) LTD PRELIMINARY ASSESSMENT OF CERTAIN BEACH CLEANUP TECHNIQUES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-1 OTTAWA ONTARIO 1981

1017 OWENS,E.H. CANADIAN INLAND WATERS COASTAL ENVIRONMENTS AND THE CLEANUP OF OIL SPILLS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-3 OTTAWA ONTARIO 1982

1037 BROWN,W.J., DENHAM,F.R. AN ECONOMIC EVALUATION OF A MOBILE ROTARY-KILN DESIGNED FOR THE CLEANUP OF OIL CONTAMINATED BEACHES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-10 OTTAWA ONTARIO 1980

1082 ANONYMOUS OIL SPILL CLEANUP MANUAL VOLUME III RELIANCE ON CHEMICAL DISPERSANTS FOR AN OIL SPILL RESPONSE $ EXXON CORPORATION HOUSTON TEXAS 1980

1147 ANONYMOUS UNDERGROUND SPILL CLEANUP MANUAL $ AMERICAN PETROLEUM INSTITUTE WASHINGTON,D.C. 1980

CLEARANCE

0195 CORMACK,D. THE RELATIVE EFFECTIVENESS OF CURRENT TECHNIQUES FOR OIL SPILL CLEARANCE $ DEPT TRADE MARINE POLLUT CONTROL UNIT LONDON ENGLAND IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 135-147 1981

0196 CORMACK,D., PARKER,H. USE OF AIRCRAFT FOR THE CLEARANCE OF OIL SPILLS AT SEA $ WARREN SPRING LAB STEVENAGE HERTFORDSHIRE ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 469-473 1979

CLEARANCE

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

CLEMENT,L.E

0715 SHAW,D.G., CLEMENT,L.E., MCINTOSH,D.J. SOME EFFECTS OF PETROLEUM ON NEARSHORE ALASKAN MARINE ORGANISMS $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-81-159147 93P. 1981

0987 STEKOLL,M.S., CLEMENT,L.E., SHAW,D.G. SUBLETHAL EFFECTS OF CHRONIC OIL EXPOSURE ON THE INTERTIDAL CLAM "MACOMA-BALTHICA" $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB82-158163 12P. 1982

CLIMATE

0507 MCKENDRICK,J.D., LAPERRIER,J.D., LOYNACHAN,T.E. COLD CLIMATE OIL SPILLS: A TERRESTRIAL AND FRESHWATER RESEARCH REVIEW $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-159121 93P. 1981

CLIMATOLOGICAL

0383 BISHOP,J.M., HARRIGAN,D., MELLO,V. P CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NUMBER 2 GULF OF MAINE/GEORGES BANK $ FEDERAL EMERGENCY MANAGEMENT AGENCY WASHINGTON, D.C. AD-A103-818/1 189P. 1981

1079 BISHOP,J.M. A CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NO 1 THE NEW-YORK BIGHT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON,D.C. 1980

CLINE,J.D

0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LMW HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

CLOUD

0635 PARNAROUSKIS,M.C., TAYLOR,M.W., LIND,C.D., RAJ,P.P.K., CECE,J.M. VAPOR CLOUD EXPLOSION STUDY $ US COAST GUARD WASHINGTON, D.C. CONGR INT SUR LE GAZ NAT LIQUEFIE 6TH 2 16P. 1980

CLOUDS

0269 FLORIDA UNIV GAINESVILLE DEPT OF ZOOLOGY THE DISSEMINATION AND COMBUSTION OF UNCONFINED LIQUEFIED-NATURAL-GAS CLOUDS $ AD-A089-315/6 59P. 1979

0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.M. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

COAL
0300 GIDDINGS,J.M., PARKHURST,B.R., GEHRS,C.W., MILLEMANN,R.E. TOXICITY OF A COAL LIQUEFACTION PRODUCT TO AQUATIC ORGANISMS $ OAK RIDGE NATL LAB TENN BULL ENVIRON CONTAM TOXICOL 25 (1) P. 1-6 1980

0349 HEWITT,J.D., RUDGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 9P. 1980

COAL-DERIVED
0900 GREENLEY,W.B., BARTA,W.D., EDDINGER,R.T. LITERATURE REVIEW OF TOXICOLOGICAL PROPERTIES OF PETROLEUM AND COAL-DERIVED OIL PRODUCTS $ UNIV DELAWARE NEWARK DE FUEL PROCESSING TECHNOLOGY 6 (1) P. 9-25 1982

COAL-LIQUID
0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

COALESCENCE
0685 KUZENTSVAIG,A.K., TRONOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

COAST
0057 BECCASIO,A.D., WEISSBERG,G.M., REDFIELD,A.E., FREW,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

0095 BORST,M., SMITH,G.F. DISPERSANT APPLICATION SYSTEM FOR THE US COAST GUARD 32-FOOT WPB (WATERWAYS PATROL BOAT) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101684 32P. 1981

0109 BRIGHT,D.B. WEST COAST OIL SPILLS A PROBABILITY ANALYSIS KEYED TO SOUTHERN CALIFORNIA $ ENVIRON FEASIBILITY STUD LOS ANGELES CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 45-51 1979

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

COAST

0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

0181 COAST GUARD WASHINGTON, D.C. THE WINDWAVE AND TURBULENCE OBSERVATION PROGRAM (WAVTOP) THE MEASUREMENT OF PARAMETERS CONTROLLING DOWNWARD MIXING OF OIL FROM THE SEA SURFACE $ AD-A083-014/1 103P. 1979

0182 COAST GUARD WASHINGTON, D.C. DEVELOPING TANKER CASUALTY AND TANKER TRAFFIC DATABASES FOR 1969-1977 $ AD-A085-655/9 384P. 1979

0183 COAST GUARD WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0222 DOHERTY,C.B., GAUVIN,C.A., MARCOLINI,R.A., OBRIEN,J.L. OPEN OCEAN POLLUTION RESPONSE THE COAST GUARD SYSTEM $ US COAST GUARD OFFSHORE TECHNOL CONF 12TH ANNU PROC 1 P. 245-253 1980

0262 FINGERMAN,S.W. DIFFERENCES IN THE EFFECTS OF FUEL OIL AN OIL DISPERSANT AND THREE POLYCHLORINATED-BIPHENYLS ON FIN REGENERATION IN THE GULF COAST KILLIFISH FUNDULUS-GRANDIS $ TULANE UNIV NEW ORLENAS LA BULL ENVIRON CONTAM TOXICOL 25 (2) P. 234-240 1980

0286 GARRETT,J.M. ARCTIC ALASKA AND ICEBREAKING: AN ASSESSMENT OF FUTURE REQUIREMENTS FOR THE UNITED STATES COAST GUARD $ NAVAL POSTGRADUATE SCHOOL MONTEREY CA AD-A100-990/1 189P. 1981

0303 GILL,S.D., RYAN,W. ASSESSMENT OF THE ACW-400 OIL SKIMMER BY THE CANADIAN COAST GUARD FOR OIL SPILL COUNTERMEASURE OPERATIONS $ CAN COAST GUARD EMERG OTTAWA ONT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 497-499 1979

0345 HENNING,H.F.K.D., FRICKE,A.H. RECOVERY POTENTIAL AND CHRONIC OIL POLLUTION ON THE SOUTH-AFRICAN COAST $ UNIV CAPE TOWN NATL RES INST OCEANOL DEPT OCEANOG RONDEBOSCH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (10) P. 301-302 1980

0403 KERKHOFF,M., FRINTROP,P., KOOPS,W. POLLUTION OF THE DUTCH COAST BY OIL FROM THE "ELENI-V" JULY 1978 $ NETH INST FOR FISH INVEST IJMUIDEN SCI TOTAL ENVIRON 19 (1) P. 33-39 1981

0460 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST WATER PORT FACILITIES STUDY APPENDIX A WESTERN GULF HYDROBIOLOGICAL ZONES $ AD-A091-404/4 154P. 1973

0461 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX D ADVERSE ENVIRONMENTAL EFFECTS $ AD-A091-406/9 96P. 1973

0462 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX B NORTH CENTRAL GULF HYDROBIOLOGICAL ZONES $ AD-A091-405/1 99P. 1973

COAST

0463 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY ENVIRONMENTAL ASSESSMENT $ AD-A091-403/6 94P. 1973

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1980

0608 NUMMEDAL,D., RUBY,C.H. SPILLED OIL RETENTION POTENTIAL BEAUFORT-SEA COAST OF ALASKA $ LOUISIANA STATE UNIV MED CTR DEPT GEOL NEW ORLEANS LA IN: NORWEGIAN INST TECHNOL PROC 79: THE FIFTH INTERNATIONAL CONF ON PORT AND ENG 3 P. 247-253 19

0674 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

1057 KEIZER,P.D. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY - ATLANTIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-30 OTTAWA ONTARIO 1982

1062 GREEN,D., HUMPHREY,B., FOWLER,B. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY: PACIFIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-36 OTTAWA ONTARIO 1982

1121 BEECH,F.G., BETTS,D.A., HUM,S., POND,S.G. WEST COAST OIL SPILL COUNTERMEASURES STUDY YEAR II $ ENVIRONMENTAL PROTECTION SERVICE PACIFIC COAST REGION 1982

COASTAL

0062 BELLANTONI,J.F. A STUDY OF OIL SPILL RATES IN FOUR US COASTAL REGIONS $ COAST GUARD WASHINGTON, D.C. AD-A103-430/5 151P. 1980

0067 BENDER,M.E., SHEARLS,E.A., HUGGETT,R.J., MURRAY,L. ECOLOGICAL EFFECTS OF EXPERIMENTAL OIL SPILLS IN EASTERN COASTAL PLAIN ESTUARIES $ VA INST OF MAR SCI GLOUCESTER POINT ENVIRON INT 3 (2) P. 121-133 1980

0072 BERNE,S., MARCHAND,M., D'OZOUVILLE,L. POLLUTION OF SEA-WATER AND MARINE SEDIMENTS IN COASTAL AREAS $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR AMBIO 9 (6) P. 287-293 1980

0152 BURKHALTER,R., MEYER,C., MASSIN,J.M. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN FRENCH COASTAL WATERS $ LAB NATL ESSAIS PARIS FRANCE IN: COOK,J.J. PROCEEDINGS OF THE FOURTEENTH INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 3 VOLS P. 269-274 1980

0154 BURNS,K.A., SMITH,J.L. BIOLOGICAL MONITORING OF AMBIENT WATER QUALITY THE CASE FOR USING BIVALVES AS SENTINEL ORGANISMS FOR MONITORING PETROLEUM POLLUTION IN COASTAL WATERS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ESTUARINE COASTAL AND SHELF SCIENCE 13 (4) P. 433-443 1981

COASTAL

0186 COLLINS,J.W. INFORMATION FROM OIL AND GAS INDUSTRY ESSENTIAL TO PROTECT COASTAL ENVIRONMENT FROM OILWELL SPILLS $ CITIES SERV CO CRANBURY NJ JOURNAL OF PETROLEUM TECHNOLOGY 33 (6) P. 1005-1007 1981

0223 DOMERACKI,D.D., GUNDLACH,E.R., THEBEAU,L.C. COASTAL PLANNING FOR OFFSHORE PETROLEUM DEVELOPMENT $ RES PLANNING INST INC COLUMBIA SC AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (9) 1661P. 1981

0226 DOZOUVILLE,L., BERNE,S., GUNDLACH,E.R., HAYES,M.O. COASTAL MORPHOLOGY AND OIL SPILL POLLUTION THE AMOCO-CADIZ EXPERIENCE $ CTR OCEANOL BRETAGNE F-29273 BREST FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 557-571 1981

0271 FONDEKAR,S.P., TOPGI,R.S., NORONHA,R.J. DISTRIBUTION OF PETROLEUM HYDROCARBONS IN GOA COASTAL WATERS $ NATL INST OCEANOG GOA INDIA INDIAN JOURNAL OF MARINE SCIENCES 9 (4) P. 286-288 1980

0355 HOFFMAN,E.J., FALKE,A.M., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

0413 KREINHEDER,J.R. COASTAL PROTECTION FUNDS: A COMPARATIVE ANALYSIS OF STATE AND FEDERAL OIL SPILL LAWS AND LEGISLATION $ ALASKA STATE LEGISLATURE HOUSE RESEARCH AGENCY JUNEAU PB-81-194581 62P. 1981

0454 LINDEN,C., ELMGREN,R., BOEHM,P. TSESIS OIL SPILL: ITS IMPACT ON THE COASTAL ECOSYSTEM OF THE BALTIC SEA $ SWED WATER AND AIR POLLUT RES INST NYKOPING AMBIO 8 (6) P. 244-253 1979

0486 MANNING,A.R. JR., WHITE,J.R., VOLLMERS,R.R. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN US COASTAL WATERS $ US COAST GUARD PROC INT SYMP REMOTE SENSING ENVIRON 14TH SAN JOSE COSTA RICA P. 249-268 1980

0620 OMOHUNDRO,J.T. OIL SPILLS: A COASTAL RESIDENT'S HANDBOOK $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-183585 16P. 1980

0702 SCHULTZ,L.A., MARSH,G.D. OFFSHORE AND COASTAL ALASKAN OIL SPILL SCENARIOS $ ARCTEC INC COLUMBIA MD ASME PAP N 80-PET-40 FOR MEET 13P. 1980

0864 BURNS,K.A., SMITH,J.L. HYDROCARBONS IN VICTORIAN COASTAL ECOSYSTEMS (AUSTRALIA) - CHRONIC PETROLEUM INPUTS TO WESTERN PORT AND PORT-PHILLIP BAYS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (2) P. 129-140 1982

0884 ERNST,W.D., GUNDLACH,E.R., THEBEAU,L.C., SADD,J.L. SENSITIVITY OF COASTAL ENVIRONMENTS TO SPILLED OIL: SOUTHERN CAROLINA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-188061 47P. 1982

COASTAL
0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

0970 RAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., MEUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

1017 OWENS,E.H. CANADIAN INLAND WATERS COASTAL ENVIRONMENTS AND THE CLEANUP OF OIL SPILLS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-3 OTTAWA ONTARIO 1982

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ TERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

COASTLINE
0934 MILLER,S. ALASKAN USA BEAUFORT SEA COASTLINE SENSITIVITY ANALYSIS AND OIL SPILL RESPONSE MANUAL $ SOHIO ALASKAN PETROLEUM CO ANCHORAGE ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 173-175 1981

COAT
0971 RAWSON,R.F., LISKOW,C.L. RADAR REFLECTIVITY MEASUREMENTS OF OCEAN SURFACE WITH AND WITHOUT A SURFACE COAT OF OIL $ ENVIRON RES INST OF MICH ANN ARBOR USA DIG - INT GEOSCI AND REMOTE SENS SUMP (IGARSS*81) 2 P. 1268-1273 1981

COATED
0836 AKST,K.H.Y., KARO,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

COATINGS
0703 SCHWENK,W. CORROSION CHEMICAL REQUIREMENTS ON THE PROPERTIES OF PIPELINE COATINGS $ RANNESMANN FORSCHUNGSINST GMBH DUISBURG FED REP GER 3 (DREI) R ROHRE ROHRLEITUNGSBAU ROHRLEITUNGSTRANSP 19 (10) P. 586-93 1980

COHEN,S.H
0184 COHEN,S.H., LINDENMUTH,W.T., FARLOW,J.S. DEVELOPMENT AND TESTS OF AN AIR-JET OIL-BOOM $ HYDRONAUT INC LAUREL MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 483-487 1979

COHEN,Y
0185 COHEN,Y., MACKAY,D., SHIU,W.Y. MASS-TRANSFER RATES BETWEEN OIL SLICKS AND WATER $ UNIV TORONTO INST ENVIRONM STUDIES TORONTO ONTARIO CANADA CANADIAN JOURNAL OF CHEMICAL ENGINEERING 58 (5) P. 569-575 1980

COHERENT
0106 BRESLIN,M.K. USING COHERENT WATER-JETS TO CONTROL OIL-SPILLS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-232720 108P. 1981

COHO-SALMON
0890 FOLMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HODGINS,H.O. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 458-462 1981

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

COJEEN,H.P
0161 LARD,J.C., COJEEN,H.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-711/3 174P. 1979

COLD
0011 ALLEN,A.A. CONTAINMENT AND RECOVERY TECHNIQUES FOR COLD WEATHER INLAND OIL SPILLS $ CROWLEY ENVIRON SERV CORP ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 345-353 1979

0118 BUHITE,T.R. CLEANUP OF A COLD WEATHER TERRESTRIAL PIPELINE SPILL $ ALYESKA PIPELINE SERV CO ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 367-369 1979

0495 MARSH,G.D., SCHULTZ,L.A., DEBORD,F.W. COLD REGIONS SPILL RESPONSE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 355-358 1979

0507 MCKENDRICK,J.D., LAPERRIER,J.D., LOYNACHAN,T.E. COLD CLIMATE OIL SPILLS: A TERRESTRIAL AND FRESHWATER RESEARCH REVIEW $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-159121 93P. 1981

0677 ROGERSON,A., BERGER,J. THE EFFECTS OF COLD TEMPERATURES AND CRUDE-OIL ON THE ABUNDANCE AND ACTIVITY OF PROTOZOA IN A GARDEN SOIL $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CANADIAN JOURNAL OF ZOOLOGY 59 (8) P. 1554-1560 1981

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

1009 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASE 1 - LITERATURE REVIEW AND FEASIBILITY STUDY $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-81-3 OTTAWA ONTARIO 1981

COLD
1042 CENTRE FOR COLD OCEAN RESOURCES AN OILSPILL IN PACK ICE $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-15 OTTAWA ONTARIO 1981

COLLECTION
0661 KAU,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HO,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

COLLECTORS
0001 ABRAMZON;A.A., MURASHEV,I.A., SEMANOV,G.N. REQUIREMENTS FOR SURFACE-ACTIVE AGENTS (SAAS) USED AS PETROLEUM COLLECTORS $ LENSOVET TECHNOL INST LENINGRAD USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (6) P. 979-982 1980

0529 MURASHEV,I.A., SHOKIN,V.V., SEMANOV,G.N. USE OF SURFACTANTS AS COLLECTORS OF PETROLEUM $ USSR TR - TSENTR NAUCHNO-ISSLED INST MORSK FLOTA 257 P. 67-72 1980

COLLIER,T.K
0484 MALINS,D.C., KRAHN,M.M., BROWN,D.W., MACLEOD,W.D., COLLIER,T.K. ANALYSIS FOR PETROLEUM PRODUCTS IN MARINE ENVIRONMENTS $ NOAA NATL MARINE FISHERIES SERV NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA HELGOLANDER MEERESUNTER- SUCHUNGEN 33 (1-4) P. 257-271 1980

COLLINS,C.M
0387 JOHNSON,L.A., COLLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

COLLINS,J.W
0186 COLLINS,J.W. INFORMATION FROM OIL AND GAS INDUSTRY ESSENTIAL TO PROTECT COASTAL ENVIRONMENT FROM OILWELL SPILLS $ CITIES SERV CO CRANBURY NJ JOURNAL OF PETROLEUM TECHNOLOGY 33 (6) P. 1005-1007 1981

0873 COLLINS,J.W., POLEY,J.P. OIL SPILL CONTINGENCY PLANNING TO MINIMIZE IMPACTS FROM A MAJOR OIL WELL SPILL $ CITIES SERV CO USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 HOUSTON TEXAS P. 473-474 1981

COLLISION
0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1980

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

COLLISION

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND EI-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

COLLISION-AVOIDANCE

0663 RAVENNA,R.C. COLLISION-AVOIDANCE SYSTEMS THE EVOLUTION CONTINUES $ SPERRY MAR SYST SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 193-197 1980

COLLOIDAL

0531 MURZAKOV,R.M., SABANENKOV,S.A., SYUNYAEV,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 674-677 1980

COLMAN,D.A

0187 COLMAN,D.A., THEW,M.T., CORNEY,D.R. HYDROCYCLONES FOR OIL-WATER SEPARATION $ UNIV SOUTHAMPTON SOUTHAMPTON HAMPSHIRE ENGLAND IN: PRIESTLY,G., STEPHENS,H.S. PAPERS PRESENTED AT AN INTERNATIONAL CONF ON HYDROCYCLONES P. 143-165 1980

COLONIZATION

0094 BOESCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALONGI,D.M., BOWEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 258P. 1981

0470 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

COLONIZE

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

COLUMN
0896 GEARING,P.J., GEARING,J.N. BEHAVIOR OF NO-2-FUEL-OIL IN THE WATER COLUMN OF CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 115-132 1982

0897 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

0937 NAESS,A. ON THE RESIDENCE TIME OF OIL MIXED INTO THE WATER COLUMN BY BREAKING WAVES $ NORW HYDRODYN LAB OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 497-508 1981

1146 MACKAY,D. THREE DIMENSIONAL DIFFUSION OF DISSOLVED AND DISPERSED OIL IN THE WATER COLUMN UNDER OIL SLICKS $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1980

COLUMNS
0074 BERTHOU,F., GOURMELON,Y., DREANO,Y., FRIOCOURT,M.P. APPLICATION OF GAS-CHROMATOGRAPHY ON GLASS-CAPILLARY COLUMNS TO THE ANALYSIS OF HYDROCARBON POLLUTANTS FROM THE AMOCO-CADIZ OIL-SPILL $ FAC MED BREST CNRS SERV BIOCHIM CHROMATOG LAB EQUIPE RECH BP BREST FRANCE JOURNAL OF CHROMATOGRAPHY 203 P. 279-292 1981

COMBAT
0649 PULEY,J.P. SELECTIVE OIL SPILL COMBAT PLANNING FOR OFFSHORE EXPLORATION AND PRODUCTION OPERATIONS IN THE NORTH SEA $ SHELL INT PET THE HAGUE NETH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 641-647 1979

0650 PULEY,J.P., CALLAGHAN,D. SELECTIVE OIL SPILL COMBAT PLANNING FOR OFFSHORE OPERATIONS $ SHELL INT PETR MIJ THE HAGUE NETHERLANDS IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 433-447 1981

0834 ANON "COSMOS" THE NEW OIL COMBAT DREDGER $ HOLL SHIPBUILD 29 (11) P. 23-26 1981

COMBUSTIBILITY
1032 TWARDUS,E.M. A STUDY TO EVALUATE THE COMBUSTIBILITY AND OTHER PHYSICAL AND CHEMICAL PROPERTIES OF AGED OILS AND EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-5 OTTAWA ONTARIO 1980

1039 HUSSAIN,K., MACKAY,D. A STUDY OF THE COMBUSTIBILITY OF WEATHERED CRUDE-OILS AND WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-12 OTTAWA ONTARIO 1980

COMBUSTION
0237 DEPARTMENT OF ENERGY WASHINGTON, D.C. COMBUSTION: AN OIL SPILL MITIGATION TOOL $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 554P. 1979

COMBUSTION
0269 FLORIDA UNIV GAINESVILLE DEPT OF ZOOLOGY THE DISSEMINATION AND COMBUSTION OF UNCONFINED LIQUEFIED-NATURAL-GAS CLOUDS $ AD-A089-315/6 59P. 1979

0386 JOHNSON,I., MYLES,K.M., SICZEK,A.A. SAMPLING AND ANALYSIS OF HYDROCARBONS IN COMBUSTION GASES QUARTERLY REPORT APRIL-JUNE 1980 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1980

0763 IAM,W.K., PURVES,W.F. EXPERIMENTAL EVALUATION OF OIL SPILL COMBUSTION PROMOTERS $ ARCTEC CAN LTD KANATA ONT P. 415-421 1980

0899 GOODIER,J.L., SICLARI,R.J. COMBUSTION: AN OIL SPILL MITIGATION TOOL PHASE II THE BURNING OF THE M/T BURMAH-AGATE (EX-DANALAND) $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 134P. 1981

1136 WAKAMIYA,W., PETTY,S.E., BOIARSKI,A., PUTMAN,A. COMBUSTION OF OILS ON WATER AN EXPERIMENTAL PROGRAM $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 1982

COMFORT,G
0188 COMFORT,G., MENON,B., PURVES,W.F. FEASIBILITY OF WATER-SPRAY-BARRIERS AS FIREPROOF OIL SLICK CONTAINMENT DEVICES $ ARCTEC CAN LTD KANATA ONT OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S SEATTLE WASH P. 422-427 1980

1019 COMFORT,G., PURVES,W. THE BEHAVIOUR OF CRUDE-OIL SPILLED UNDER MULTI-YEAR ICE $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-4 OTTAWA ONTARIO 1982

COMMUNITIES
0116 BUCKLEY,E.N., PFAENDER,F.K. EFFECTS OF IXTOC-1 OIL SPILL ON OCEANIC MICROBIAL COMMUNITIES $ UNIV OF NORTH CAROLINA CHAPEL HILL NC 8/ST ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY 81 (0) 182P. 1981

0158 CABIOCH,L. POLLUTION OF SUBTIDAL SEDIMENTS AND DISTURBANCE OF BENTHIC-ANIMAL COMMUNITIES $ ROSCOFF BIOL STN FR AMBIO 9 (6) P. 294-296 1980

0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN MERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

0370 HYLAND,J.L., SCHNEIDER,E.D. PETROLEUM HYDROCARBONS AND THEIR EFFECTS ON MARINE ORGANISMS POPULATIONS COMMUNITIES AND ECOSYSTEMS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-80-195423 43P. 1979

0470 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

COMMUNITIES

0471 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

0692 SAMAIN,J.F., MOAL,J., DANIEL,J.Y., BOUCHER,J., LEFEVRE,J. ECOPHYSIOLOGICAL EFFECTS OF OIL SPILLS FROM AMOCO-CADIZ ON PELAGIC COMMUNITIES PRELIMINARY RESULTS $ CENT OCEANOL DE BRETAGNE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 175-185 1979

0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192429 63P. 1980

0732 SMITH,C.J., DELAUNE,R.D., PATRICK,W.H. A METHOD FOR DETERMINING STRESS IN WETLAND PLANT COMMUNITIES FOLLOWING AN OIL SPILL $ LOUISIANA STATE UNIV CTR WETLAND RESOURCES WETLAND SOILS AND SEDIMENTS LAB BATON ROUGE LA ENVIRONMENTAL POLLUTION SERIES A-ECOL AND BIOL 26 (4) P. 297-304 1981

0760 TAGATZ,M.E., IVEY,J.M., OGLESBY,J.L. TOXICITY OF DRILLING-MUD BIOCIDES TO DEVELOPING ESTUARINE MACROBENTHIC COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY GULF BREEZE FLA PB-81-106031 10P. 1980

0868 CARON,D.A., SIEBURTH,J.M.C.N. RESPONSE OF PELTRICHOUS-CILIATES IN FOULING COMMUNITIES TO SEAWATER ACCUMMODATED HYDROCARBONS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-181850 23P. 1982

0870 CLARK,R.B. THE LONG-TERM EFFECT OF OIL POLLUTION ON MARINE PUPULATIONS COMMUNITIES AND ECOSYSTEMS SOME QUESTIONS $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 185-192 1982

0871 CLARK,R.B. THE IMPACT OF OIL POLLUTION IN MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS A SUMMING -UP $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 433-443 1982

COMMUNITY

0048 BAKKE,T., JOHNSEN,T.M. RESPONSE OF A SUBTIDAL SEDIMENT COMMUNITY TO LOW LEVELS OF OIL HYDROCARBONS IN A NORWEGIAN FJORD $ INST OF MAR RES NORDNES-BERGEN NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 633-639 1979

COMMUNITY

0213 DENHARTOG,C., JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON AN EELGRASS COMMUNITY AT ROSCOFF (FRANCE) WITH SPECIAL REFERENCE TO THE MOBILE BENTHIC FAUNA $ CATHOLIC UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 182-191 1980

0283 GABOR,I., GRIFFITH,T.K. ASSESSMENT OF COMMUNITY VULNERABILITY TO ACUTE HAZARDOUS MATERIALS INCIDENTS $ OHIO STATE UNIV COLUMBUS J HAZARD MATER 3 (4) P. 323-333 1980

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

0379 JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SEAGRASS COMMUNITY AT ROSCOFF WITH SPECIAL REFERENCE TO THE BENTHIC INFAUNA $ UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS MARINE ECOLOGY-PROGRESS SERIES 2 (3) P. 207-212 1980

0471 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

0633 PAMATMAT,M.M. BENTHIC COMMUNITY METABOLISM ON THE CONTINENTAL SHELF OF THE NORTHERN GULF OF MEXICO $ AUBURN UNIV AL 8P. 1979

0876 DAUVIN,J.C. IMPACT OF AMOCO-CADIZ OIL SPILL ON THE MUDDY FINE SAND ABRA-ALBA AND MELINNA-PALMATA COMMUNITY FROM THE BAY OF MORLAIX $ STN BIOL ROSCOFF FRANCE ESTUARINE COASTAL AND SHELF SCIENCE 14 (5) P. 517-531 1982

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,M.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

COMPENSATION

0167 CARVEN,C.J. OIL SPILL LIABILITY AND COMPENSATION $ EXXON CORP NEW YORK NY PROC - OIL SPILL CONF LOS ANGELES CALIF P. 7-10 1979

0310 GOUILLOUD,M.R. OIL SLICKS ENVIRONMENTAL COMPENSATION $ UNIV PARIS FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 67-76 1981

COMPLEX-MIXTURES
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

COMPONENTS
0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

COMPOSITION
0056 BEAN,R.M., BLAYLOCK,J.W., RILEY,R.G. APPLICATION OF TRACE ANALYTICAL TECHNIQUES TO A STUDY OF HYDROCARBON COMPOSITION UPON DISPERSION OF PETROLEUM IN A FLOWING SEAWATER SYSTEM $ BATTELLE MEM INST PACIFIC NW LABS BATTELLE BLVD RICHLAND WA IN: PETRAKIS,L., WEISS,F.T. PETROLEUM IN THE MARINE ENVIRONMENT 185 P. 235-246 1980

0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS I HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

COMPOSTING
0759 JAFFEE,W., EPSTEIN,E. A STUDY OF RAPID BIODEGRADATION OF OILY WASTES THROUGH COMPOSTING $ ENERGY RESOURCES CO INC CAMBRIDGE MA AD-A081-432/7 57P. 1979

COMPOUND

0717 SHEVELYAKOV,V.V., SIDENKO,A.T. SENSITIZING AND STIMULATING PROPERTIES OF THE COMPOUND LUBRICANT NO. 76 $ USSR NAUCH-TEKHN PROGRESS I OKHRANA TRUDA ZHENSHCHIN V OSNOV OTR ASIYAKH KHIM PROM-STI MINSK P. 142-4 1980

COMPOUNDS

0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MOLHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. P3-80-177140 366P. 1980

0496 MARTIN,B.J. EFFECTS OF PETROLEUM COMPOUNDS ON ESTUARINE FISHES $ UNIVERSITY OF SOUTHERN MISSISSIPPI HATTIESBURG PB-80-141310 42P. 1980

0603 NOMURA,A., MURITA,Y., KOGURE,Y. NITROGEN COMPOUNDS IN PETROLEUM "EM-DASH" 4 DISTRIBUTION PROFILES OF NITROGEN COMPOUNDS IN PETROLEUM BY SOLID-LIQUID CHROMATOGRAPHY $ NATL CHEM LAB FOR IND TOKYO JPN BULL CHEM SOC JPN 52 (3) P. 817-820 1979

0661 RAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HU,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

0724 SILVESTRO,E., CROCKER,M. TOXICITY OF CHEMICAL COMPOUNDS USED FOR ENHANCED OIL RECOVERY $ ENERGY RESOUR CO INC CAMBRIDGE MA 198P. 1980

0885 FARRINGTON,J.W., DAVIS,A.C., FREW,N.M., RABIN,K.S. NO-2-FUEL-OIL COMPOUNDS IN MYTILUS-EDULIS RETENTION AND RELEASE AFTER AN OIL SPILL $ WOODS HOLE OCEANOG INST DEPT CHEM WOODS HOLE MA MARINE BIOLOGY 66 (1) P. 15-26 1982

0959 OGATA,M., FUJISAWA,K., MIYAKE,Y. TRANSFER OF ORGANIC SULFUR COMPOUNDS IN PETROLEUM FROM CRUDE OIL SUSPENSION TO THE MUSSEL $ MED SCH OKAYAMA UNIV OKAYAMA JAPAN IGAKU TO SEIBUTSUGAKU 103 (3) P. 243-7 1981

0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIRRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

COMPTON,M

0189 COMPTON,M. TERMINAL SAFETY GUIDELINES ESTABLISHED $ CARGO SUST INT 7 (6) P. 109, 111, 113, 115 1980

COMPUTER

0275 FRANKLIN,A.L. TREELI: A COMPUTER PROGRAM FOR TRANSPORTATION RISK ASSESSMENT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 89P. 1980

COMPUTER

0373 IMBRIE,R.J., KARWAN,K.R. COMPUTER SEARCHING FOR POLLUTION CLEANUP EQUIPMENT $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 257-260 1979

0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

0898 GLASS,A.W., HORTON,B.R. "SLIKTRAK" COMPUTER SIMULATION OF SURFACE POLLUTION PROBLEMS ARISING FROM OFFSHORE OIL SPILLS $ SHELL INT PET MAATSCH THE HAGUE NETH PROC OF THE WORLD PET CONGR 10TH 5 P. 3-12 1980

1144 HUNTER,J.R. AN INTERACTIVE COMPUTER MODEL OF OIL SLICK MOTION $ JOURNAL OF OCEANOLOGY INTERNATIONAL 1980

1145 ARCHER,S.J. DRIFT INTERACTIVE COMPUTER MODEL FOR PREDICTING OIL SLICK MOVEMENT $ OFFSHORE ENVIRONMENTAL SYSTEMS LTD UK 1980

COMPUTER-MODEL

0630 PACE,D.G. COMPUTER-MODEL WILL AID OIL SPILL CLEANUP EFFORTS $ MIT SEA GRANT COLL PROGRAM CAMBRIDGE MA SEA TECHNOLOGY 21 (9) P. 10-12 1980

CONCEN-TRATION

0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

CONCENTRATES

0855 BROWN,K.W., DONNELLY,K.C. MUTAGENIC POTENTIAL OF WATER CONCENTRATES FROM THE EFFLUENT OF A WASTE OIL STORAGE POND $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (4) P. 424-429 1982

CONCENTRATIONS

0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE COPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

0190 CONNELL,D.W., MILLER,G.J. PETROLEUM HYDROCARBONS IN AQUATIC ECOSYSTEMS BEHAVIOR AND EFFECTS OF SUBLETHAL CONCENTRATIONS 1 $ GRIFFITH UNIV QUEENS LAND AUSTRALIA CRIT REV ENVIRON CONTROL 11 (1) P. 37-104 1981

0429 LAUGHLIN,R.B. JR., NG,J., GUARD,H.E. HORMESIS: A RESPONSE TO LOW ENVIRONMENTAL CONCENTRATIONS OF PETROLEUM HYDROCARBONS $ NAVAL BIOSCIENCES LAB OAKLAND CA AD-A097-079/8 4P. 1980

CONCENTRATIONS

0491 MARCHAND,M.H. THE AMOCO-CADIZ OIL SPILL DISTRIBUTION AND EVOLUTION OF HYDROCARBON CONCENTRATIONS IN SEAWATER AND MARINE SEDIMENTS $ CENT OCEANOL BRETAGNE CNEXO BREST FR ENVIRON INT 4 (5-6) P. 421-9 1980

1128 EYRES,A.R. GUIDELINES FOR THE DETERMINATION OF ATMOSPHERIC CONCENTRATIONS OF OIL MISTS $ CONCAWE 1981

CONCEPT

1063 GERMAN AND MILNE INC SUBSEA BLOWOUT CONTAINMENT SYSTEM CONCEPT ANALYSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-37 OTTAWA ONTARIO 1982

CONDITIONS

0088 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL RETURN TO NORMAL CONDITIONS $ MINISTRY OF AGRIC FISHERIES AND FOOD FISHERIES LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX UK MAR POLLUT BULL 12 (4) P. 126-130 1981

0151 BURGER,E.D., CHURN,L.G., PERKINS,T.K. STUDIES OF DRAG REDUCTION CONDUCTED OVER A BROAD RANGE OF PIPELINE CONDITIONS WHEN FLOWING PRUDHOE-BAY CRUDE-OIL $ ARCO OIL AND GAS CO DALLAS TX JOURNAL OF RHEOLOGY 24 (5) P. 603-626 1980

0672 RILEY,R.G., THOMAS,B.L., ANDERSON,J.W., BEAN,R.M. CHANGES IN THE VOLATILE HYDROCARBON CONTENT OF PRUDHOE-BAY CRUDE-OIL TREATED UNDER DIFFERENT SIMULATED WEATHERING CONDITIONS $ BATTELLE PAC NORTHWEST LAB RICHLAND WA MAR ENVIRON RES 4 (2) P. 109-19 1980

1027 DICKENS,D.F. ICE CONDITIONS $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-8 OTTAWA ONTARIO 1981

1116 ANONYMOUS BURNING OF CRUDE-OIL UNDER WIND HERDING CONDITIONS $ ENERGETEX ENGINEERING WATERLOO ONTARIO 1981

CONFERENCE

0021 ANON. PROCEEDINGS OF THE CONFERENCE ON ASSESSMENT OF ECOLOGICAL IMPACTS OF OIL SPILLS 1978 $ AM INST OF BIOL SCI ARLINGTON VA PROC OF THE CONF ON ASSESS OF ECOL IMPACTS OF OIL SPILLS 936P. 1978

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0372 ILLINOIS INST OF NATURAL RESOURCES WASHINGTON, D.C. WASTE OIL MANAGEMENT CONFERENCE ROAD TO RECOVERY 80 PROCEEDINGS HELD AT AMOCO RESEARCH CENTER NAPERVILLE ILLINOIS ON APRIL 3 1980 $ PB-80-224876 134P. 1980

0474 LUDWIGSON,J.O. (ED) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1979 $ PROC - OIL SPILL CONF LOS ANGELES CALIF 728P. 1979

CONFERENCE
0793 VERNBERG,E.J., ALTEKRUSE,E.B., BUTLER,S.D. PROCEEDINGS OF CONFERENCE ON OIL TANKER TRANSPORTATION: AN INTERDISCIPLINARY ANALYSIS OF NATIONAL AND INTERNATIONAL POLI $ SOUTH CAROLINA UNIV COLUMBIA AD-A080-085/4 250P. 1980

0835 ANON PROCEEDINGS OF THE TANKER CONFERENCE 1980 $ WASHINGTON,D.C. PROC TANKER CONF 1980 CORONADO CALIF 247P. 1980

0964 PARROTTE,K.B. (ED.) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1981 $ PROC - 1981 OIL SPILL CONF (PREV BEHAV CONTROL CLEANUP) ATLANTA GA 742P. 1981

1075 ANONYMOUS PROCEEDINGS OF THE TWELFTH ANNUAL OFFSHORE TECHNOLOGY CONFERENCE - VOLUMES 1-4 $ OFFSHORE TECHNOLOGY CONFERENCE COMMITTEE HOUSTON TEXAS 1980

CONFERENCE/WORKSHOPS
0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

CONFIGURATIONS
0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

0733 SMITH,G.F. DEPLOYMENT CONFIGURATIONS FOR IMPROVED OIL CONTAINMENT WITH SELECTED SORBENT BOOMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101650 32P. 1981

CONFINED
0935 MOREL,G., COURTOT,P. EVOLUTION OF HYDROCARBONS IN A CONFINED MARINE SITE FOLLOWING THE PETROLEUM POLLUTION OF THE AMOCO-CADIZ $ UNIV BRETAGNE OCCIDENTALE FAC SCI AND TECH BREST FRANCE BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE PT I (11-1) P. 387-388 1981

CONGALIDIS,J
0296 GEORGAKIS,C., CONGALIDIS,J., WILLIAMS,G.C. MODEL FOR NON-INSTANTANEOUS LNG AND GASOLINE SPILLS $ MIT CAMBRIDGE MASS FUEL 58 (2) P. 113-120 1979

CONGRESS
0540 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. REPORT TO THE CONGRESS ON OCEAN POLLUTION AND OFFSHORE DEVELOPMENT OCTOBER 1977 THROUGH SEPTEMBER 1978 $ PB-81-118333 94P. 1980

CONNELL,D.W

0190 CONNELL,D.W., MILLER,G.J. PETROLEUM HYDROCARBONS IN AQUATIC ECOSYSTEMS BEHAVIOR AND EFFECTS OF SUBLETHAL CONCENTRATIONS 1 $ GRIFFITH UNIV QUEENS LAND AUSTRALIA CRIT REV ENVIRON CONTROL 11 (1) P. 37-104 1981

CONSEQUENCES

0018 ANDRESON,R.K., MUKHATANOV,A.K., BOIKO,T.F. ECOLOGICAL CONSEQUENCES OF SOIL POLLUTION WITH OIL $ ACAD SCI USSR INST BIOL UFA SOVIET JOURNAL OF ECOLOGY 11 (6) P. 340-344 1980

0614 OFFICE OF RADIATION PROGRAMS WASHINGTON, D.C. THE CONSEQUENCES AND FREQUENCY OF SELECTED MAN ORIENTED ACCIDENT EVENTS $ PB-80-211303 233P. 1980

CONSTRUCTION

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEV,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

1119 BOIST,I. FIREPROOF BOOM DEVELOPMENT PHASE III - PROTOTYPE CONSTRUCTION AND TESTING FOR DOME PETROLEUM LTD $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1981

1135 ANONYMOUS GUIDANCE NOTES FOR THE CONSTRUCTION AND CLASSIFICATION OF OIL RECOVERY SHIPS $ LLOYD'S REGISTRY OF SHIPPING LONDON 1980

CONTACT

0483 MALCOLM,J.D., DUTTON,C.R. INTERFACIAL-TENSION AND CONTACT ANGLE OF CRUDE-OIL UNDER ICE $ MEM UNIV OF NEWFOUNDL ST. JOHN'S POAC 79 INT CONF ON PORT AND OCEAN ENG UNDER ARCTIC COND P. 771-779 1979

CONTACTS

0816 WILSON,A.R. AN EXPERIMENTAL THERMAL CORRECTION FOR PREDICTED OIL FILM THICKNESS IN ELASTOHYDRODYNAMIC CONTACTS $ SHELL RES LTD THORNTON RES CTR CHESTER CH1 CHESHIRE ENGL IN: DOWSON,D., TAYLOR,C.M., GODET,M., BERTHE,D. THERMAL EFFECTS IN TRIBOLOGY P. 179-190 1980

CONTAINED

0688 SAINTPAUL,C., MUNIN,J.C., DURAND,B. FAST METHOD FOR CHARACTERIZING C-1 TO C-35 HYDROCARBONS CONTAINED IN SEDIMENTARY-ROCKS AND IN OILS $ INST FRANCAIS PETR PARIS FRANCE REVUE DE L INSTITUT FRANCAIS DU PETROLE 35 (6) P. 1065-1078 1980

CONTAINING

0393 KARELIN,Y.A., ZHUKOV,D.D., SAIDAMINOV,I.A. BIOCHEMICAL TREATMENT OF OIL CONTAINING WASTEWATER IN AERATION TANKS $ CHEM TECHNOL FUELS OILS 15 (7-8) P. 540-544 1979

CONTAINING

0520 MIRONOV,O.G., SHCHEKATURINA,T.L., YANOV,B.G., STEPANETS,L.G. USE OF MUSSELS IN PURIFICATION OF OIL CONTAINING SEA WATERS $ NEFTYANOE KHOZYAISTVO (6) P. 63-65 1981

0531 MURZAKOV,K.M., SABANENKOV,S.A., SYUNYAEJ,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 574-577 1980

0746 STANKOVICOVA,J. TREATMENT OF WATER CONTAINING PETROLEUM HYDROCARBONS BY ABRATION FOR WATER SUPPLY PURPOSES $ UPRAVA VODY S OBSAHOM ROPNYCH UHLOVODIKOV AERACIOU NA VODARENSKE UCELY VYSK USTAV VODN HOSPOD BRATISLAVA PR STUD (98-100) P. 113-195 1980

0958 NESTEROVA,M.P., ANDREIEVA,N.M., LEVINA,R.M. INVESTIGATION OF CHEMICAL AGENTS CONTAINING THE SPREAD OF OIL ON A WATER SURFACE $ WATER RESOUR 8 (1) P. 85-91 1981

0969 RADUSKI,E. REMOVAL OF HYDROCARBON TASTE AND ODOR FROM POTABLE WATER BY REPLACEABLE CARBON CONTAINING FILTER CARTRIDGES $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A107-878/1 21P. 1981

CONTAINMENT

0011 ALLEN,A.A. CONTAINMENT AND RECOVERY TECHNIQUES FOR COLD WEATHER INLAND OIL SPILLS $ CROWLEY ENVIRON SERV CORP ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 345-353 1979

0188 COMPORI,G., MENON,B., PURVES,W.F. FEASIBILITY OF WATER-SPRAY-BARRIERS AS FIREPROOF OIL SLICK CONTAINMENT DEVICES $ ARCTEL CAN LTD KANATA ONT OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S SEATTLE WASH P. 422-427 1980

0399 KAZMIERCZAK,L.J. OIL SPILL CLEANUP AND CONTAINMENT $ SUN CO INC PHILADELPHIA PA IN: NATL ACAD SCI OUTER CONTINENTAL SHELF FRONTIER TECHNOLOGY P. 179-208 1980

0446 LEIGH,J.T. SPILL CONTAINMENT AND CLEANUP RESEARCH AND DEVELOPMENT $ US COAST GUARD OFF RES AND DEV ENVIRONM TECHNOL BRANCH WASHINGTON, D.C. MARINE TECHNOLOGY 18 (4) P. 342-343 1981

0548 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VIII CONTAINMENT BASELINES $ PB-80-130073 628P. 1978

0733 SMITH,G.F. DEPLOYMENT CONFIGURATIONS FOR IMPROVED OIL CONTAINMENT WITH SELECTED SORBENT BOOMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101650 32P. 1981

1010 WESTERN CANADA HYDRAULIC LABORATORIES LTD INVESTIGATION OF THE OPERATING PARAMETERS OF THE OIL SPILL CONTAINMENT AND RECOVERY (OSCAR) VESSEL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-5 OTTAWA ONTARIO 1981

CONTAINMENT
1038 TSANG,G. THEORETICAL STUDY FOR THE SCALE MODELLING OF SUBSEA CONTAINMENT DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-11 OTTAWA ONTARIO 1980

1045 PATERSON,J.D. IN SITU PERMEABILITY TESTING FOR PETROLEUM PRODUCT CONTAINMENT DYKES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-18 OTTAWA ONTARIO 1981

1063 GERMAN AND MILNE INC SUBSEA BLOWOUT CONTAINMENT SYSTEM CONCEPT ANALYSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-37 OTTAWA ONTARIO 1982

1071 MEIKLE,K.M., MACKAY,D., PATERSON,S. SUB-SEA CONTAINMENT OF OIL $ INSTITUTE FOR ENVIRONMENTAL STUDIES TORONTO ONTARIO 1981

1122 TSANG,G. THEORETICAL STUDY FOR GUIDANCE OF MODEL STUDY OF SUBSEA BLOWOUT CONTAINMENT DEVICE $ ENVIRONMENTAL EMERGENCY BRANCH OTTAWA ONTARIO NORTH-TECH 1980

1125 ANONYMOUS OIL SPILL CONTAINMENT BOOM EVALUATION TRIALS NORTH SASKATCHEWAN RIVER $ CANADIAN PETROLEUM ASSOCIATION PRAIRIE REGION 1980

CONTAMINANT
0140 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME V RECEPTORS MICROBIOLOGY CONTAMINANT BASELINES $ PB-80-186851 703P. 1979

0148 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME III: EFFECTS AND CONTAMINANT BASELINES $ PB-81-196289 359P. 1980

CONTAMINANTS
0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204082 118P. 1979

CONTAMINATED
0010 ALBERS,P.H. TRANSFER OF CRUDE-OIL FROM CONTAMINATED WATER TO BIRD EGGS $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD ENVIRONMENTAL RESEARCH 22 (2) P. 307-314 1980

CONTAMINATED

0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

0094 BUESCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALONGI,D.M., BOWEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 258P. 1981

0470 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1961

0504 MCGILL,W.B., ROWELL,M.J. DETERMINATION OF OIL CONTENT OF OIL CONTAMINATED SOIL $ UNIV ALBERTA DEPT SOIL SCI EDMONTON ALBERTA CANADA SCIENCE OF THE TOTAL ENVIRONMENT 14 (3) P. 245-253 1980

0892 FRAME,G.M., FLANIGAN,G.A., CHAMBERLAIN,C.P. CLEANUP PROCEDURE FOR CONTAMINATED OILS PRIOR TO FINGERPRINTING BY GAS-CHROMATOGRAPHY AND INFRARED-SPECTROSCOPY $ US COAST GUARD CTR RES AND DEV GROTON CT BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 29 (1) P. 29-36 1982

1037 BROWN,W.J., DENHAM,F.R. AN ECONOMIC EVALUATION OF A MOBILE ROTARY-KILN DESIGNED FOR THE CLEANUP OF OIL CONTAMINATED BEACHES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-10 OTTAWA ONTARIO 1980

CONTAMINATION

0036 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATION ON SEDIMENT WORKING RATES OF ABARENICOLA-PACIFICA $ BATTELLE PACIFIC NW LAB MARINE RES LAB SEQUIM WA MARINE ENVIRONMENTAL RESEARCH 3 (4) P. 307-313 1980

0040 AWAD,M. COMPARATIVE STUDIES ON ANALYTICAL METHODS FOR THE ASSESSMENT OF PETROLEUM CONTAMINATION IN THE MARINE ENVIRONMENT II GAS-CHROMATOGRAPHIC ANALYSES $ FAC SCI UNIV ALEXANDRIA ALEXANDRIA EGYPT MAR CHEM 10 (5) P. 417-30 1981

0230 DUFFY,J.J., PEAKE,E., MOHTADI,M.F. OIL SPILLS ON LAND AS POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION $ UNIV CALGARY CALGARY CANADA ENVIRON INT 3 (2) P. 107-20 1980

0305 GIRALT,F., MEDIR,M., MACKAY,D. OIL CONTAMINATION OF THE MEDITERRANEAN AND BEAUFORT SEAS TO CURE TO PREVENT OR TO NEGLECT $ UNIV BARCELONA FAC QUIM TARRAGONA DEPT QUIM TECN TARRAGONA SPAIN AFINIDAD 38 (373) P. 215-219 1981

CONTAMINATION

0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-169 1981

0471 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

0725 SIROTA,G.R., UTHE,J.F., COOKE,M. (ED), DENNIS,A.J. (ED) POLYNUCLEAR-AROMATIC-HYDROCARBON CONTAMINATION IN MARINE SHELL $ HALIFAX LAB DEP FISH OCEANS HALIFAX NS CAN CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 329-41 1981

0773 TOPINKA,J.A., TUCKER,L.R. LONG-TERM OIL CONTAMINATION OF FUCOID-MACROALGAE FOLLOWING THE AMOCO-CADIZ OIL SPILL $ BIGELOW LAB OCEAN SCI MCKOWN POINT/WEST BOOTHBAY HARBOR ME AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 393-403 1979

0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ IERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

CONTENT
0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

0066 BELOUS,A.R., NOVIKOV,V.I., IZOTOV,V.I. DETERMINATION OF TEL CONTENT IN GASOLINES BY GAMMA-ABSORPTION METHOD $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 913-914 1979

0377 JACKSON,G.F., HUME,E., WADE,M.J., KIRSCH,M. OIL CONTENT IN PRODUCED BRINE ON TEN LOUISIANA PRODUCTION PLATFORMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-108408 495P. 1981

0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-168 1981

0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TEORICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

0504 MCGILL,W.B., ROWELL,M.J. DETERMINATION OF OIL CONTENT OF OIL CONTAMINATED SOIL $ UNIV ALBERTA DEPT SOIL SCI EDMONTON ALBERTA CANADA SCIENCE OF THE TOTAL ENVIRONMENT 14 (3) P. 245-253 1980

0672 RILEY,A.G., THOMAS,B.L., ANDERSON,J.W., BEAN,R.M. CHANGES IN THE VOLATILE HYDROCARBON CONTENT OF PRUDHOE-BAY CRUDE-OIL TREATED UNDER DIFFERENT SIMULATED WEATHERING CONDITIONS $ BATTELLE PAC NORTHWEST LAB RICHLAND WA MAR ENVIRON RES 4 (2) P. 109-19 1980

CONTENTS
0415 KUCHERENKO,L.A., KAMYSHOVA,V.K. DEPENDENCE OF THE TOXIC AND PROTECTIVE PROPERTIES OF SHALE-OILS ON THEIR CONTENTS OF WATER SOLUBLE PHENOLS $ MV LOMONO SOV STATE UNIV MOSCOW JOURNAL OF APPLIED CHEMISTRY OF THE USSR 54 (1) P. 112-114 1981

0606 NOTINI,M. CONTENTS AND LONG TIME EFFECTS IN THE LITTORAL ZONE AFTER AN OIL SPILL A TWO YEAR STUDY OF THE TSESIS OIL SPILL $ 16P. 1980

CONTINGENCY
0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KROGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

CONTINGENCY
0622 ONEILL,T. OIL SPILL CONTINGENCY PLANS AND POLICIES IN NORWAY AND THE UNITED-KINGDOM $ YALE UNIV SCH FORESTRY AND ENVIRONM STUDIES NEW HAVEN CT COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 289-317 1980

0696 SARTOR,J.D., CASTLE,R.W. CONTINGENCY PLANNING FOR LIQUID PIPELINE SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF ASME PAP N 81-PET-12 FOR MEET 8P. 1981

0749 SIGNER,R.R. TROPICAL OIL SPILL CONTINGENCY PLANNING REQUIREMENTS AND APPLICATIONS $ NUS CORP ROCKVILLE MD IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 663-677 1981

0778 ISAHALIS,D.T. CONTINGENCY PLANNING FOR OIL SPILLS: RIVERSPILL A RIVER SIMULATION MODEL $ SHELL DEV CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 27-36 1979

0806 WESTBY,K.A. OIL SPILL PREPAREDNESS AND CONTINGENCY PLANNING FOR THE NORWEGIAN CONTINENTAL SHELF $ PHILLIPS PETR EXPLORAT UK LTD TEESIDE ENGLAND IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 157-174 1981

0873 COLLINS,J.W., POLEY,J.P. OIL SPILL CONTINGENCY PLANNING TO MINIMIZE IMPACTS FROM A MAJOR OIL WELL SPILL $ CITIES SERV CO USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 HOUSTON TEXAS P. 473-474 1981

CONTINUOUS-FLOW
0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

CONRAD,J
0012 ALVARADJ,U.R., CHAFARIS,G., CHESTEK,J., CONRAD,J., FRIPPEL,G. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: TECHNICAL VOLUME EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 464P. 1980

CONTROLLED
0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

0896 GEARING,P.J., GEARING,J.N. BEHAVIOR OF NO-2-FUEL-OIL IN THE WATER COLUMN OF CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 115-132 1982

CONTROLLED
0897 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

CONTROLS
1098 WATERS,W.G., HEAVER,T.D., VERRIER,T. OIL POLLUTION FROM TANKER OPERATIONS -- CAUSES COSTS CONTROLS $ CENTRE FOR TRANSPORTATION STUDIES VANCOUVER CANADA 1980

CONVERSION
0252 FASGADAIR - BP TAKES DELIVERY OF ITS INSHORE OIL RECOVERY AND POLLUTION CONTROL VESSEL AFTER CONVERSION AT CLYDEDOCK ENGINEERING GLASGOW $ NAVAL ARCHITECT (3) P. E111-113 1981

CONVERTING
0328 HALL,J.D. INVESTIGATION OF CLEANING PROCEDURES FOR CONVERTING PETROLEUM TANKERS TO POTABLE WATER SERVICE $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A105-633/2 50P. 1981

COOK
0704 SCIENCE APPLICATIONS INC BOULDER CO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF LOWER COOK INLET INTERIM SYNTHESIS REPORT $ PB-80-130735 252P. 1979

COOK,F.D
0807 WESTLAKE,D.W.S., COOK,F.D. PETROLEUM BIODEGRADATION POTENTIAL OF NORTHERN PUGET-SOUND AND STRAIT OF JUAN-DE-FUCA ENVIRONMENTS $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WASHINGTON PB-81-141137 147P. 1980

COOK,R.C
0191 COOK,R.C., MARINO,K.L., COOPER,R.B. A SIMULATOR STUDY OF DEEPWATER PORT SHIPHANDLING AND NAVIGATION PROBLEMS IN POOR VISIBILITY $ COAST GUARD WASHINGTON, D.C. AD-A100-656/8 190P. 1981

COOK,W.L
0004 AHEARN,D.G., COOK,W.L., CROW,S.A. EFFECTS OF POLLUTANTS ON MICROBIAL ACTIVITIES IN ESTUARINE SURFACE FILMS $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-171183 28P. 1981

COOKE,M
0218 DICK,R., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-40 1980

0725 SIROTA,G.R., UTHE,J.F., COOKE,M. (ED), DENNIS,A.J. (ED) POLYNUCLEAR-AROMATIC-HYDROCARBON CONTAMINATION IN MARINE SHELL $ HALIFAX LAB DEP FISH OCEANS HALIFAX NS CAN CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 329-41 1981

COUMES,C.A

0201 COX,J.M., EBBESMEYER,C.C., HELSETH,J.M., COUMES,C.A. DRIFT CARD OBSERVATIONS IN NORTHWESTERN WASHINGTON ALONG PORTIONS OF TWO PROPOSED OIL PIPELINE ROUTES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-173833 196P. 1980

COUPER,P

0192 COUPER,P. A WHIFF OF PETROL $ BR IND BIOL RES ASSOC ENGL FOOD COSMET TOXICOL 18 (4) P. 433-4 1980

COUPER,R.B

0191 COOK,R.C., MARINO,K.L., COUPER,R.B. A SIMULATOR STUDY OF DEEPWATER PORT SHIPHANDLING AND NAVIGATION PROBLEMS IN POOR VISIBILITY $ COAST GUARD WASHINGTON, D.C. AD-A100-656/8 190P. 1981

COUPER,W.W

0173 CHARNES,A., COUPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

CUPE

0983 SULANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (CUPE) AND TRINECTES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MS JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

CUPENHAVER,E.D

1068 CUPENHAVER,E.D., WILKINSON,B.K. MOVEMENT OF HAZARDOUS SUBSTANCES IN SOIL A BIBLIOGRAPHY VOLUME 2 PESTICIDES $ PB80-113111 228P. 1979

CUPEPODS

0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE CUPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

CUPPOLA,A

0193 CUPPOLA,A., HALL,R.E. A RISK COMPARISON $ NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 30P. 1981

CURDELLE

0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF CURDELLE GEORGIA EXPLOSION AND FIRE CURDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

CURDGRASS

0995 WEBB,J.W., TANNER,G.T., KOERTH,B.H. OIL SPILL EFFECTS ON SMOOTH CORDGRASS IN GALVESTON-BAY TEXAS $ TEXAS A AND M UNIV DEPT RANGE SCI COLLEGE STN TX CONTRIBUTIONS IN MARINE SCIENCE 24 P. 107-114 1981

COREXIT-9527

0623 URDZIK,C.J., GARDFALD,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

0676 ROGERSON,A., BERGER,J. THE TOXICITY OF THE DISPERSANT COREXIT-9527 AND OIL DISPERSANT MIXTURES TO CILIATE-PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CHEMOSPHERE 10 (1) P. 33-39 1981

0889 FOGHT,J.M., WESTLAKE,D.W.S. EFFECT OF THE DISPERSANT COREXIT-9527 ON THE MICROBIAL DEGRADATION OF PRUDHOE-BAY OIL $ UNIV ALBERTA DEPT MICROBIOL EDMONTON ALBERTA CANADA CANADIAN JOURNAL OF MICROBIOLOGY 28 (1) P. 117-122 1982

1018 FOY,M.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-3 OTTAWA ONTARIO 1982

CORFIELD,M.M

0194 CORFIELD,M.A., HAWKINS,H.L., JOHN,P., SOUTAR,I. ASSESSMENT OF PHOSPHORESCENCE-SPECTROSCOPY FOR CRUDE-OIL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ANALYST (LONDON) 106 (1259) P. 188-97 1981

CORMACK,D

0195 CORMACK,D. THE RELATIVE EFFECTIVENESS OF CURRENT TECHNIQUES FOR OIL SPILL CLEARANCE $ DEPT TRADE MARINE POLLUT CONTROL UNIT LONDON ENGLAND IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 135-147 1981

0196 CORMACK,D., PARKER,H. USE OF AIRCRAFT FOR THE CLEARANCE OF OIL SPILLS AT SEA $ WARREN SPRING LAB STEVENAGE HERTFORDSHIRE ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 469-473 1979

CORNEY,D.R

0187 COLMAN,J.A., THEW,M.T., CORNEY,D.R. HYDROCYCLONES FOR OIL-WATER SEPARATION $ UNIV SOUTHAMPTON SOUTHAMPTON HAMPSHIRE ENGLAND IN: PRIESTLY,G., STEPHENS,H.S. PAPERS PRESENTED AT AN INTERNATIONAL CONF ON HYDROCYCLONES P. 143-165 1980

CORNILLON,P.C

0197 CORNILLON,P.C., SPAULDING,M.L., HANSEN,K. OIL SPILL TREATMENT STRATEGY MODELING FOR GEORGES-BANK $ UNIV OF RI KINGSTON USA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 685-692 1979

CORRELATION

1065 WOLFE,N.L., PARIS,D.F., STEEN,W.C., BAUGHMAN,G.L. CORRELATION OF MICROBIAL DEGRADATION RATES WITH CHEMICAL STRUCTURE $ AMERICAN CHEMICAL SOCIETY 14 (9) P. 1143-1144 1980

CORRELATIONS

0481 MAGUTT,R.J., BASS,R.L. III, MORROW,T.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

CORROSION

0566 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PIPELINE CORROSION 1977-JULY 1981 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ PB-81-803545 233P. 1981

0664 REED,W.E. PIPELINE CORROSION 1964 APRIL 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-810013 221P. 1980

0665 REED,W.E. PIPELINE CORROSION 1977 APRIL 1980 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-810021 243P. 1980

0703 SCHWENK,W. CORROSION CHEMICAL REQUIREMENTS ON THE PROPERTIES OF PIPELINE COATINGS $ MANNESMANN FORSCHUNGSINST GMBH DUISBURG FED REP GER 3 (DKEI) R ROHRE ROHRLEITUNGSBAU ROHRLEITUNGSTRANSP 19 (10) P. 586-93 1980

0944 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PIPELINE CORROSION 1964-FEBRUARY 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-806423 179P. 1982

1030 CAPROCO CORROSION PREVENTION LTD INVESTIGATION OF THE OVERFLOW AND LOSS OF PETROLEUM FUEL AT STORAGE FACILITIES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-3 OTTAWA ONTARIO 1980

1041 CORROSION SERVICE COMPANY LIMITED EVALUATION AND PREVENTION OF CORROSION LEAKS ON BURIED STORAGE TANKS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-14 OTTAWA ONTARIO 1981

CORTES,A

0198 CORTES,A., ALTAMIRANO,J. CHEMICAL EVOLUTION OF HYDROCARBONS IN WEATHERED BEACH OIL SAMPLES AFTER THE IXTOC-1 ACCIDENT $ INST MEXICANO PETR DIV ANALYT MEXICO CITY MEXICO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 10P. 1980

COSMOS

0834 ANON "COSMOS" THE NEW OIL COMBAT DREDGER $ HOLL SHIPBUILD 29 (11) P. 23-26 1981

COUSSON,R

0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., COUSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

COSTS
0509 MEADE,N.F., ANDERSON,R.C. PROBLEMS AND PERSPECTIVES IN MEASURING THE SOCIAL COSTS OF OIL POLLUTION $ NOAA WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 59-62 1979

1098 WATERS,W.G., HEAVER,T.D., VERRIER,T. OIL POLLUTION FROM TANKER OPERATIONS -- CAUSES COSTS CONTROLS $ CENTRE FOR TRANSPORTATION STUDIES VANCOUVER CANADA 1980

COUCH,J.A
0199 COUCH,J.A. SHRIMPS (ARTHROPODA:-CRUSTACEA:- PENAEIDAE) $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-80-185259 26P. 1979

COUM,A
0690 SAMAIN,J.F., MOAL,J., COUM,A., LECOR,J.R., DANIEL,J.Y. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON ZOOPLANKTON A NEW POSSIBILITY OF ECOPHYSIOLOGICAL SURVEY $ CTR OCEANOL BRETAGNE BP F-29273 BREST FRANCE HELGOLANDER MEERESUNTERSUCH- UNGEN 33 (1-4) P. 225-235 1980

COUNTER-MEASURES
1023 WOODWARD-CLYDE CONSULTANTS SHORELINE COUNTER-MEASURES $ BAFFIN ISLAND OIL SPILL WORKING REPORT # BIOS-80-4 OTTAWA ONTARIO 1981

COUNTERMEASURE
0235 DEPARTMENT OF ENERGY WASHINGTON, D.C. SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN $ BENDIX CORP KANSAS CITY 57P. 1981

0303 GILL,S.D., RYAN,W. ASSESSMENT OF THE ACW-400 OIL SKIMMER BY THE CANADIAN COAST GUARD FOR OIL SPILL COUNTERMEASURE OPERATIONS $ CAN COAST GUARD EMERG OTTAWA ONT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 497-499 1979

0503 MCCRACKEN,W.F., CHARLTON,T.J., FREESTONE,F.J. OIL POLLUTION PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRON ASSESS COUNC INC NEW BRUNSWICK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 213-216 1979

0689 UNTERBERG,W., MUDKEHEAD,R.M. GUIDE FOR SPILL PREVENTION CONTROL AND COUNTERMEASURE INSPECTORS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-115296 119P. 1981

0780 TRENTACOSTE,N.P., BIERMAN,G.R., CUNNINGHAM,J. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ SCIENCE APPLICATIONS INC MCLEAN VA PB-80-174287 227P. 1980

1111 TRENTACOSTE,N.P., BIERMAN,G.R. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174287 1980

COUNTERMEASURES
0276 FRASER,J.P. OIL SPILL COUNTERMEASURES A RATIONAL SYSTEM FOR SELECTION AND SIZING OF EQUIPMENT $ SHELL OIL CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 253-255 1979

0339 HAUER,E. BIAS-BY-SELECTION: OVERESTIMATION OF THE EFFECTIVENESS OF SAFETY COUNTERMEASURES CAUSED BY THE PROCESS OF SELECTION FOR TREATMENT $ UNIV OF TORONTO ONT ACCID ANAL PREV 12 (2) P. 113-117 1980

0511 MEIKLE,K.M. OIL SPILL COUNTERMEASURES FOR CANADA'S ICE-INFESTED WATERS $ DEP OF THE ENVIRON OTTAWA ONT ASME PAP N 81-PET-24 FOR MEET 7P. 1981

0680 ROSS,S.L. THE DEVELOPMENT OF COUNTERMEASURES FOR OIL SPILLS IN CANADIAN ARCTIC WATERS $ ENVIRONM PROTECT SERV PROGRAM ARCT MARINE OIL SPILL OTTAWA ONTARIO IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 377-399 1981

0681 ROSS,S.L. OIL SPILL COUNTERMEASURES IN OFFSHORE PRODUCTION $ ROSS ENVIRONM RES LTD OTTAWA ONTARIO IN: UPTON,C.K. PROCEEDINGS OF THE NINTH ENVIRONMENTAL WORKSHOP ON OFFSHORE HYDROCARBON DEVELOPMENT P. 372-389 1980

1117 ROSS,S.L. NORMAN-WELLS OILFIELD EXPANSION OIL SPILL SCENARIOS AND COUNTERMEASURES $ S.L. ROSS ENVIRONMENTAL RESEARCH LTD NWT 1980

1121 BEECH,P.G., BETTS,D.A., HUM,S., POND,S.G. WEST COAST OIL SPILL COUNTERMEASURES STUDY YEAR II $ ENVIRONMENTAL PROTECTION SERVICE PACIFIC COAST REGION 1982

COURTOT,P
0935 MOREL,G., COURTOT,P. EVOLUTION OF HYDROCARBONS IN A CONFINED MARINE SITE FOLLOWING THE PETROLEUM POLLUTION OF THE AMOCO-CADIZ $ UNIV BRETAGNE OCCIDENTALE FAC SCI AND TECH BREST FRANCE BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE PT I (11-1) P. 387-388 1981

COVER
0290 TSANG,G., RECOVERY OF OIL SPILLED UNDER RIVER ICE COVER $ NATL WATER RES INST BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 387-396 1979

COX,G.V
0200 COX,G.V. OIL SPILL STUDIES: STRATEGIES AND TECHNIQUES: WORKSHOP PAPERS $ RAYTHEON OCEANOGRAPHIC AND ENVIRONMENT SERVICES PORTSMOUTH RI JOURNAL OF ENVIRONMENTAL PATHOLOGY AND TOXICOLOGY 3 (1-2) 1979

COX,J.C
0893 FREE,A.P., COX,J.C., SCHULTZ,L.A. LABORATORY STUDIES OF OIL SPILL BEHAVIOR IN BROKEN ICE FIELDS $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A114-178// 63P. 1981

COX,J.M
0201 COX,J.M., EBBESMEYER,C.C., HELSETH,J.M., COUMES,C.A. DRIFT CARD OBSERVATIONS IN NORTHWESTERN WASHINGTON ALONG PORTIONS OF TWO PROPOSED OIL PIPELINE ROUTES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-173833 196P. 1980

CUZ,J.K

0691 SAMAIN,J.F., MUAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE CUZ,J.K. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

CRAB

0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSWORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SJS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

CRADDOCK,D.R

0890 FULMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HODGINS,H.O. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 456-462 1981

CRANE,G.D

0202 CRANE,G.D. DEVELOPMENT OF THE DEPARTMENT OF THE ENVIRONMENT'S POLLUTION PAPER NO 8 (ON ACCIDENTAL OIL POLLUTION OF THE SEA) $ DEP OF THE ENVIRON AND TRANSP MAR ENVIRON AND OIL FACIL PROC OF A CONF LONDON ENGL P. 49-63 1978

CRANES

0886 FLEMING,W.J., SILED,L., FRANSON,J.C. TOXICITY OF PRUDHOE-BAY CRUDE-OIL TO SANDHILL CRANES $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD JOURNAL OF WILDLIFE MANAGEMENT 46 (2) P. 474-478 1982

CRASSOSTREA-VIRGINIA-GMELIN

0482 MAHONEY,B.M., HASKIN,H.H. EFFECTS OF PETROLEUM HYDROCARBONS ON THE GROWTH OF PHYTOPLANKTON RECOGNISED AS FOOD FORMS FOR THE EASTERN OYSTER CRASSOSTREA-VIRGINIA-GMELIN $ RUTGERS STATE UNIV NEW BRUNSWICK NJ ENVIRON POLLUT SER A 22 (2) P. 123-132 1980

CRITERIA

0168 CASTLE,R.W., SCHRIER,E. DECISION CRITERIA FOR THE CHEMICAL DISPERSION OF OIL SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 459-463 1979

CRITERIA

0488 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS: APPLICATION TO THE "BOHLEN" OIL SPILLAGE $ CENT OCEANOL BRETAGNE CNEXO BREST FR OCEANOL ACTA 4 (2) P. 171-183 1981

0492 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS APPLICATION TO THE BOHLEN OIL SPILLAGE $ CTR NATL EXPLOITAT OCEANS CTR OCEANOL BRETAGNE BP BREST FRANCE OCEANOLOGICA ACTA 4 (2) P. 171-183 1981

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

CRITIQUE

0684 PAYNE,J.F. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ RES AND RESOURCE SERV ST JOHNS NEWFOUNDLAND CANADA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 370-372 1982

0926 MALINS,D.C., MCGINS,H.O. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 372-373 1982

CROCKER,M

0724 SILVESTRO,E., CROCKER,M. TOXICITY OF CHEMICAL COMPOUNDS USED FOR ENHANCED OIL RECOVERY $ ENERGY RESOUR CO INC CAMBRIDGE MA 198P. 1980

CRONSHAW,J

0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

CROQUETTE,J

0092 BOCARD,C., RENAULT,P., CROQUETTE,J. CLEANING PRODUCTS USED IN OPERATIONS AFTER THE AMOCO-CADIZ DISASTER $ INST FR DU PET RUEIL MALMAISON FR PROC - OIL SPILL LOS ANGELES CALIF P. 163-167 1979

0203 CROQUETTE,J., GATELLIER,C. USE OF BEACH CLEANING- AGENTS AND THEIR EFFECTS ON OIL SPILLS $ CEDRE BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACID HYDROCARBURES ACTES COLLOQ INT P. 821-36 1979

CROSS-FORMATIONAL
0774 TOTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CORDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

CROSS,T.F
0533 MYERS,A.A., SOUTHGATE,T., CROSS,T.F. DISTINGUISHING THE EFFECTS OF OIL POLLUTION FROM NATURAL CYCLICAL PHENOMENA IN THE BIOTA OF BANTRY-BAY IRELAND $ NATL UNIV IRELAND UNIV COLL CORK DEPT ZOOL CORK IRELAND MARINE POLLUTION BULLETIN 11 (7) P. 204-207 1980

CROSS,W.E
1022 CROSS,W.E., THOMSON,D.H. MACROBENTHOS $ BAFFIN ISLAND OIL SPILL WORKING REPORT # BIOS-80-3 OTTAWA ONTARIO 1981

CROSWELL,W.F
0874 CROSWELL,W.F., BLUME,H.J.C., JOHNSON,J.W. MICROWAVE REMOTE-SENSING MEASUREMENTS OF OIL POLLUTION OF THE OCEAN $ NASA LANGLEY RES CENT HAMPTON VA DIG - INT GEOSCI AND REMOTE SENS SYMP (IGARSS'81) 2 P. 1246-1251 1981

0913 JOHNSON,J.W., CROSWELL,W.F. CHARACTERISTICS OF 13.9 GHZ RADAR SCATTERING FROM OIL FILMS ON THE SEA SURFACE $ NASA LANGLEY RES CTR HAMPTON VA RADIO SCIENCE 17 (3) P. 611-617 1982

CROW,S.A
0003 AHEARN,D.G., CROW,S.A. YEASTS FROM THE NORTH SEA AND AMOCO-CADIZ OIL $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-110496 5P. 1980

0004 AHEARN,D.G., COOK,W.L., CROW,S.A. EFFECTS OF POLLUTANTS ON MICROBIAL ACTIVITIES IN ESTUARINE SURFACE FILMS $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-171183 28P. 1981

0204 CROW,S.A., AHEARN,D.G. DEGRADATION OF OIL BY YEAST AND FILAMENTOUS FUNGI IN ARCTIC ENVIRONMENTS $ GEORGIA STATE UNIV ATLANTA AD-A078-892/7 13P. 1979

CRUDE-OIL-WATER
0600 NEUSTADTER,E., WHITTINGHAM,K.P., GRAHAM,D.E. INTERFACIAL RHEOLOGICAL PROPERTIES OF CRUDE-OIL-WATER SYSTEMS $ PB RES CTR DIV NEW TECHNOL SUNBURY THAMES MIDDLESEX ENGLAND IN: SHAH, D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 307-326 1981

CRUDE-OILS
0287 GAUER,J.P., KUMAR,H.D. GROWTH RESPONSE OF FOUR MICRO-ALGAE TO THREE CRUDE-OILS AND A FURNACE-OIL $ BANARAS HINDU UNIV VARANASI INDIA ENVIRON POLLUT SER A 25 (1) P. 77-85 1981

CRUDE-OILS
0354 HU,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., RAO,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.H., CANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-18 1980

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

0661 RAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HU,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

0771 LITTARELLI,P., BALDASSARRI,L.T., ZERLIA,T. IDENTIFICATION OF SPILLED CRUDE-OILS BY VAPORPHASE ULTRAVIOLET-ABSORPTION-SPECTROMETRY $ STAZ SPERIMENTALE COMBUSTIBILI,VIALE A DE GASPERI SAN DONATO MILANE ITALY ANALYTICAL CHEMISTRY 53 (11) P. 1706-1708 1981

1039 HOSSAIN,K., MACKAY,D. A STUDY OF THE COMBUSTIBILITY OF WEATHERED CRUDE-OILS AND WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-12 OTTAWA ONTARIO 1980

1040 MACKAY,D., PATERSON,S. THE PHYSICAL PROPERTIES OF FRESH AND WEATHERED CRUDE-OILS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-13 OTTAWA ONTARIO 1980

CRUSTACEAN
0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIKRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

CRUSTACEANS
0441 LEGLISE,M., RAGUENES,G. SURVEY ON EFFECTS OF AMOCO-CADIZ OIL SPILL ON EDIBLE CRUSTACEANS IN POLLUTED AREAS $ INST SCI TECH PECHES MARITIMES NANTES FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 775-87 1979

CUBERES,M.R
0008 ALBAIGES,J., CUBERES,M.R. ON THE DEGRADATION OF PETROLEUM RESIDUES IN THE MARINE ENVIRONMENT $ INST BIO-ORG CHEM BARCELONA SPAIN CHEMOSPHERE 9 (9) P. 539-45 1980

CUCCI,T.L
0205 CUCCI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB "EURYPANOPEJS-DEPRESSUS" $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203508 9P. 1979

CUEVAS,P.A
0206 CUEVAS,P.A., FLORES,R.G.C., CASTELLANOS,T.R. GAS-CHROMATOGRAPHY AS A TECHNIQUE FOR OIL SPILL SOURCE IDENTIFICATION $ CROMATOGRAFIA DE GAS COMO TECNICA PARA LA IDENTIFICACION DE FUENTES DE DERRAME DE CRUDO INST MEX DEL PET MEXICO CITY REV INST MEX PET 12 (4) P. 30-41 1980

CULLEY,J.L.B
0875 CULLEY,J.L.B., DOW,B.K., PRESANT,B.W., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION $ AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

CULTURES
0318 GRIZEL,H., MICHEL,P., ABARNOU,A., GUEGAN,B. EFFECTS OF AMOCO-CADIZ OIL SPILL ON OYSTER CULTURES $ INST SCI TECH PECHES MARITIMES LA TRINITE/MER FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOG INT P. 715-26 1981

CUMMINGS,B.A
0207 CUMMINGS,B.A., GORDON,R.C. MICROBIOLOGICALLY MEDIATED MUTAGENIC ACTIVITY OF CRUDE-OIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-82-105131 302P. 1981

CUMULATIVE
0977 SHARP,J.M., APPAN,S.G. THE CUMULATIVE ECOLOGICAL EFFECTS OF NORMAL OFFSHORE PETROLEUM OPERATIONS CONTRASTED WITH THOSE RESULTING FROM CONTINENTAL SHELF OIL SPILLS $ GULF UNIV RES CONSORTIUM HOUSTON TX PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 309-322 1982

CUNNINGHAM,J
0780 TRENTACOSTE,N.P., BIERMAN,G.R., CUNNINGHAM,J. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ SCIENCE APPLICATIONS INC MCLEAN VA PB-80-174287 227P. 1980

CURBY,W.A
0051 BANNISTER,W.W., RANCOURT,J.D., CURBY,W.A. AMINE-CARBAMATE GELLING-AGENTS FOR FACILITATING OIL SPILL RECOVERY AND CONTROL $ DEP CHEM UNIV LOWELL LOWELL MA MAR TECHNOL SO (EIGHTY) ANNU CONF MAR TECHNOL SOC 16TH P. 146-9 1980

CUTTER
0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102049 78P. 1980

CYCLICAL
0533 MYERS,A.A., SOUTHGATE,T., CROSS,T.F. DISTINGUISHING THE EFFECTS OF OIL POLLUTION FROM NATURAL CYCLICAL PHENOMENA IN THE BIOTA OF BANTRY-BAY IRELAND $ NATL UNIV IRELAND UNIV COLL CORK DEPT ZOOL CORK IRELAND MARINE POLLUTION BULLETIN 11 (7) P. 204-207 1980

D'OZOUVILLE,L
0072 BERNE,S., MARCHAND,M., D'OZOUVILLE,L. POLLUTION DE SEA-WATER AND MARINE SEDIMENTS IN COASTAL AREAS $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR AMBIO 9 (6) P. 287-293 1980

0227 D'OZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

DALEN,V
0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KROGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

DAMAGE
0395 KARINEN,J.F. PETROLEUM IN THE DEEP SEA ENVIRONMENT: POTENTIAL FOR DAMAGE TO BIOTA $ NOAA AUKE BAY ALASKA ENVIRON INT 3 (2) P. 135-144 1980

0574 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA DAMAGE DETECTION SYSTEM FOR LNG CARRIERS: AN ACOUSTICAL DAMAGE DETECTION SYSTEM FOR SAFER LNG CARRIERS $ PB-80-975240 1P.

0632 PALM,D.J., ALEXANDER,M.M., PHILLIPS,D.M., LONGABUCCO,P. DAMAGE ASSESSMENT STUDIES FOLLOWING THE NEPCO-140 OIL SPILL ON THE ST.-LAWRENCE RIVER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-154594 175P. 1979

0989 SUCH,W. BEING SMART BEFORE THE DAMAGE IS DONE EXPERIENCES WITH PIPELINE ACCIDENTS IN EUROPE $ UMSCHAU DAS WISSENSCHAFTSMAGAZIN 82 (4) 119P. 1982

DAMAGED
0805 WENTSEL,R.S., JONES,W.E. III, FOUTCH,K., WILKINSON,M., KITCHENS,J.F. ACCELERATED RESTORATION OF SPILL DAMAGED LANDS $ ATLANTIC RES CORP ALEXANDRIA VA CONTROL HAZARD MATER SPILLS PROC NATL CONF P. 99-102 1980

DAMAGES
0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

DAMPING

0100 BUGORODSKII,V.V., SHEVELEVA,T.I., TARASHKEVICH,V.N. DAMPING OF WATER-WAVES BY SURFACE OIL FILMS $ ARCT AND ANTARCT RES INST LENINGRAD USSR DOKLADY AKADEMII NAUK SSSR 255 (1) P. 198-201 1980

DAN,M.S

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEV,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

DANENBERGER,E.P

1130 DANENBERGER,E.P. OUTER CONTINENTAL SHELF OIL AND GAS BLOWOUTS $ DEPARTMENT OF THE INTERIOR WASHINGTON,D.C. 1980

DANIEL,J.Y

0690 SAMAIN,J.F., MOAL,J., COUM,A., LECOR,J.R., DANIEL,J.Y. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON ZOOPLANKTON A NEW POSSIBILITY OF ECOPHYSIOLOGICAL SURVEY $ CTR OCEANOL BRETAGNE BP F-29273 BREST FRANCE HELGOLANDER MEERESUNTERSUCH- UNGEN 33 (1-4) P. 225-235 1980

0691 SAMAIN,J.F., MOAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE CUZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

0692 SAMAIN,J.F., MOAL,J., DANIEL,J.Y., BOUCHER,J., LEFEVRE,J. ECOPHYSIOLOGICAL EFFECTS OF OIL SPILLS FROM AMOCO-CADIZ ON PELAGIC COMMUNITIES PRELIMINARY RESULTS $ CENT OCEANOL DE BRETAGNE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 175-185 1979

DAPHNIA-MAGNA

0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

DAPHNIA-PULEX

0822 WONG,C.K., ENGELHARD,F.R., STRICKLER,J.R. SURVIVAL AND FECUNDITY OF DAPHNIA-PULEX ON EXPOSURE TO PARTICULATE OIL $ UNIV OF OTTAWA ONT CAN BULL ENVIRON CONTAM TOXICOL 26 (5) P. 606-612 1981

DATABANK
0843 BERTRAND,A.R.V. INSTITUT FRANCAIS DU PETROLE DATABANK ON ACCIDENTAL OIL SPILLS AT SEA (1955-1980) NEW RESULTS $ (LA BANQUE DE DONNEES DE L'INSTITUT FRANCAIS DU PETROLE SUR LES DEVERSEMENTS ACCIDENTELS DE PETROLE EN MER (1955-1980) - NOUVEAUX RESULTATS) INST FR DU PET RUEIL-MALMAISON REV INST FR PET 36 (2) P. 229-239 1981

DATABASES
0182 COAST GUARD WASHINGTON, D.C. DEVELOPING TANKER CASUALTY AND TANKER TRAFFIC DATABASES FOR 1969-1977 $ AD-A085-655/9 3P4P. 1979

DAUVIN,J.C
0157 CABIOCH,L., DAUVIN,J.C., BERMUDEZ,J.M., BABID,C.R. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SUBLITTORAL BENTHOS NORTH OF BRITTANY $ STN BIOL PL G TESSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 192-208 1980

0876 DAUVIN,J.C. IMPACT OF AMOCO-CADIZ OIL SPILL ON THE MUDDY FINE SAND ABRA-ALBA AND MELINNA-PALMATA COMMUNITY FROM THE BAY OF MORLAIX $ STN BIOL ROSCOFF FRANCE ESTUARINE COASTAL AND SHELF SCIENCE 14 (5) P. 517-531 1982

DAVENPORT,C.V
0387 JOHNSON,L.A., COLLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

0741 SPARROW,E.B., DAVENPORT,C.V., GORDON,M.C. RESPONSE OF MICROORGANISMS TO HOT CRUDE-OIL SPILLS ON A SUBARCTIC TAIGA SOIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB COLLEGE ALASKA PB-80-217722 16P. 1978

DAVIES,P.S
0609 NUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

DAVIS,A.C
0865 FARRINGTON,J.W., DAVIS,A.C., FREW,N.M., RABIN,K.S. NO-2-FUEL-OIL COMPOUNDS IN MYTILUS-EDULIS RETENTION AND RELEASE AFTER AN OIL SPILL $ WOODS HOLE OCEANOG INST DEPT CHEM WOODS HOLE MA MARINE BIOLOGY 65 (1) P. 15-26 1982

DAVIS,P.H
0877 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS & THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 287-294 1981

DAVIS,P.H
0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS & HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

DAVIS,R.A
0208 DAVIS,R.A. REPORT ON A WORKSHOP ON ARCTIC MARINE MAMMALS $ LGL LIMITED ENVIRONMENTAL RESEARCH ASSOCIATES TORONTO ONTARIO CAN TECH REP FISH AQUAT SCI 0 (1005) P. IV, 1-13 1981

DAVIS,W.P
0209 DAVIS,W.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

DAWE,B.R
1011 DAWE,B.R., PARASHAR,S.K., RYAN,J.P., WORSFOLD,R.D. THE USE OF SATELLITE IMAGERY FOR TRACKING THE KURDISTAN OIL SPILL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-6 OTTAWA ONTARIO 1981

DE-ROUCKER,A
0790 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DE-ROUCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE REP (9) 52P. 1980

DEACON,G
1072 DEACON,G. OIL POLLUTION IN THE MARINE ENVIRONMENT SOME RESEARCH NEEDS $ ROYAL SOCIETY OF LONDON 1980

DEBURD,F.W
0495 MARSH,G.D., SCHULTZ,L.A., DEBURD,F.W. COLD REGIONS SPILL RESPONSE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 355-358 1979

DEBRIS
0006 AHO,H., GUERIN,M. OILY DEBRIS DISPOSAL PROBLEM IN MAINE $ DEP OF ENVIRON PROT AUGUSTA ME ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 36-61 1980

0251 FARLOW,J.S. (ED), SWANSON,C. (ED) DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION (SYMPOSIUM) 1978 $ EPA OFF OF RES AND DEV EDISON NJ ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP 147P. 1978

0334 HANSEN,W.G., RUSS,D.E., SINCLAIR,J.R. OIL SPILL DEBRIS DISPOSAL HARDWARE SYSTEMS: METHODS FOR CONCEPTUALIZATION AND DEVELOPMENT $ SCS ENG LONG BEACH CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 507-513 1979

DEBRIS
0408 KNOWLTON,M.E., RUCKER,J.E. REFINERY OILY WASTE TREATMENT AND DISPOSAL TECHNIQUES AND THEIR POTENTIAL APPLICATION TO OIL SPILL DEBRIS $ CHEVRON RES CO RICHMOND CALIF DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP DENVER COLO P. 109-117 1978

0857 KREUEL,A. (ED.) POLLUTION TECHNOLOGY REVIEW NO 67: HOW TO DISPOSE OF OIL AND HAZARDOUS CHEMICAL SPILL DEBRIS $ USA 420P. 1981

1110 FARLOW,J.S., WILDER,K., POTTER,C. OIL SPILL DEBRIS WHERE TO PUT THE WASTE $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-177454 1980

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ TERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

DEBROEKER,A
1113 VAN DOORENHOVEN,J.A.C.M., ANGLES,M., DEBROECKER,A., KELLY,K.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE 1980

DEBRUIN,D
0917 KOOMAN,C., DEBRUIN,D., SMIT,J.A. TRAFFIC ACCIDENTS AND SAFETY MEASURES ON DUTCH WATERWAYS $ PUBL WORKS DEPT DELTA DEPT DIV ENGN BERGEN OP ZOOM NETHERLANDS IN: PERMANENT INT ASSOC NAV CONGRESSES 11 P. 313-333 1981

DECISION
0168 CASTLE,R.W., SCHRIER,E. DECISION CRITERIA FOR THE CHEMICAL DISPERSION OF OIL SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF PROJ - OIL SPILL CONF LOS ANGELES CALIF P. 459-463 1979

0473 LUCKRITZ,R.T., SCHNEIDER,A.L. DECISION MAKING IN HAZARDOUS MATERIALS TRANSPORTATION $ US COAST GUARD ACAD NEW LONDON CONN J HAZARD MATER 4 (2) P. 129-143 1980

DEEP-WATER
1015 MARKO,J.R. DEEP-WATER BLOWOUT TRAJECTORY MODELS FOR THE LANCASTER-SOUND REGION $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-2 OTTAWA ONTARIO 1982

DEEPWATER
0191 COOK,R.C., MARINO,K.L., COOPER,R.B. A SIMULATOR STUDY OF DEEPWATER PORT SHIPHANDLING AND NAVIGATION PROBLEMS IN POOR VISIBILITY $ COAST GUARD WASHINGTON, D.C. AD-A100-656/8 190P. 1981

0657 PURNELL,J. A DEEPWATER OIL AND GAS TECHNOLOGY ASSESSMENT $ GEOLOGICAL SURVEY RESTON VA PB-81-243032 253P. 1981

DEER-PARK

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

DEFLECTORS

0314 GREENE,G.D., BRODSKY,A.Z., CHARLES,M.E., MACKAY,D. USE OF DEFLECTORS FOR DEPLOYMENT OF OIL BOOMS IN RIVERS $ ESSO RESOUR CAN LTD CALGARY ALBERTA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 411-417 1979

DEFORMATION

0641 PENMAN,A.D.M. SOIL STRUCTURE INTERACTION AND DEFORMATION PROBLEMS WITH LARGE OIL TANKS $ BUILDING RESEARCH STATION WATFORD ENGLAND PB-80-227192 20P. 1978

DEGRADATION

0008 ALBAIGES,J., CORERES,M.R. ON THE DEGRADATION OF PETROLEUM RESIDUES IN THE MARINE ENVIRONMENT $ INST BIO-ORG CHEM BARCELONA SPAIN CHEMOSPHERE 9 (9) P. 539-45 1980

0016 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SURDUDV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

0033 ATLAS,R.M. FATE OF OIL FROM TWO MAJOR OIL SPILLS: ROLE OF MICROBIAL DEGRADATION IN REMOVING OIL FROM THE AMOCO-CADIZ AND IXTOC-I SPILLS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY ENVIRON INT 5 (1) P. 33-8 1981

0117 BUDAY,F., SASS,L., TOROK,G., GERGELY,Z., SZAKACS,A., VORJS,I. MICROPIOLOGICAL DEGRADATION OF OIL POLLUTION OF SOILS $ HIGH PRESSURE RES INST SZASZHALOMBATTA HUNGARY ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE 27 (3) 258P. 1980

0204 CROW,S.A., AHEARN,D.G. DEGRADATION OF OIL BY YEAST AND FILAMENTOUS FUNGI IN ARCTIC ENVIRONMENTS $ GEORGIA STATE UNIV ATLANTA AD-A078-892/7 13P. 1979

0329 HAMBRICK,G.A. III, DELAUNE,R.D., PATRICK,W.H. JR. EFFECT OF ESTUARINE SEDIMENT PH AND OXIDATION-REDUCTION POTENTIAL ON MICROBIAL HYDROCARBON DEGRADATION $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-128233 6P. 1980

0748 SIDEKMER,P.C. A NEW HYDROCARBON DEGRADATION FUNGUS: VERTICILLIUM-ECANII $ NAIL INST PUBLIC HEALTH OSLO NORWAY EUR J.APPL MICROBIOL BIOTECHNOL 10 (3) P. 259-60 1980

0801 WARD,D.M. DEGRADATION PROCESSES OF HYDROCARBONS $ DEP MICROBIOL MONTANA STATE UNIV BOZEMAN MT AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 217-22 1979

DEGRADATION

0867 CARLSON,R.E. THE BIOLOGICAL DEGRADATION OF SPILLED JET-FUELS: A LITERATURE REVIEW $ AIR FORCE ENGINEERING AND SERVICES CENTER TYNDALL AFB FL AD-A110-758/0 41P. 1981

0889 FUCHT,J.M., WESTLAKE,D.W.S. EFFECT OF THE DISPERSANT COREXIT-9527 ON THE MICROBIAL DEGRADATION OF PRUDHOE-BAY OIL $ UNIV ALBERTA DEPT MICROBIOL EDMONTON ALBERTA CANADA CANADIAN JOURNAL OF MICROBIOLOGY 28 (1) P. 117-122 1982

1065 WOLFE,N.L., PARIS,D.F., STEEN,W.C., BAUGHMAN,G.L. CORRELATION OF MICROBIAL DEGRADATION RATES WITH CHEMICAL STRUCTURE $ AMERICAN CHEMICAL SOCIETY 14 (9) P. 1143-1144 1980

DEGRADE

1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204052 118P. 1979

DEGRADING

0478 MACCUBBIN,A.E., KATOR,H. DISTRIBUTION ABUNDANCE AND PETROLEUM DEGRADING POTENTIAL OF MARINE BACTERIA FROM MIDDLE ATLANTIC CONTINENTAL SHELF WATERS $ VIRGINIA INST MARINE SCI DEPT MICROBIOL PATHOL GLOUCESTER POINT VA IN: BOURQUIN,A.W., PRITCHARD,P.H. PROCEEDINGS OF THE WORKSHOP: MICROBIAL DEGRADATION OF POLLUTANTS IN MARINE ENVIRONMENTS P. 380-395 1979

0678 ROGERSEN,A., BERGER,J. EFFECT OF CRUDE-OIL AND PETROLEUM DEGRADING MICROORGANISMS ON THE GROWTH OF FRESH-WATER AND SOIL PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO JOURNAL OF GENERAL MICROBIOLOGY 124 P. 53-59 1981

DELAUNE,R.D

0211 DELAUNE,R.D., PATRICK,W.H. JR., BURESH,R.J. EFFECT OF CRUDE-OIL ON A LOUISIANA *SPARTINA-ALTERNIFLORA SALT-MARSH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-164502 11P. 1979

0329 HAMBRICK,G.A. III, DELAUNE,R.D., PATRICK,W.H. JR. EFFECT OF ESTUARINE SEDIMENT PH AND OXIDATION-REDUCTION POTENTIAL ON MICROBIAL HYDROCARBON DEGRADATION $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-128233 6P. 1980

0732 SMITH,L.J., DELAUNE,R.D., PATRICK,W.H. A METHOD FOR DETERMINING STRESS IN WETLAND PLANT COMMUNITIES FOLLOWING AN OIL SPILL $ LOUISIANA STATE UNIV CTR WETLAND RESOURCES WETLAND SOILS AND SEDIMENTS LAB BATON ROUGE LA ENVIRONMENTAL POLLUTION SERIES A-ECOL AND BIOL 26 (4) P. 297-304 1981

DELAWARE

0455 LINDSTEDT-SIVA,J. PREPARING FOR OIL SPILLS IN THE DELAWARE RIVER ESTUARY $ ATL RICHFIELD CO LOS ANGELES CALIF COASTAL ZONE *80 PROC OF THE SYMP ON COASTAL AND OCEAN MANAGE P. 294-311 1980

DELCARIE,E

0638 PAUL,K., DELCARIE,E., TILMAN,J., GODEFROID,C. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF STREET TREES $ DEP BIOL VEG THEOR APPL FAC SCI AGRON ETAT GEMBLOUX BELG TRIB CEBEDEAU 33 (445) P. 547-53 1980

DELIKAT,D.S

0212 DELIKAT,D.S. IXTOC-I OIL SPILL AND ATLANTIC RIDLEY-TURTLE SURVIVAL $ US COAST GUARD WASHINGTON, D.C. PROC OF THE SUMP ON COASTAL AND OCEAN MANAGE 2ND 1 P. 312-319 1980

DELMOTTE,A

0380 JACQUES,J.M., KENSON,M., DELMOTTE,A. THE DEVELOPMENT OF A MODEL FOR BIOLOGICAL CONTROL OF SHALLOW TROPICAL WATERS SUBJECTED TO PETROLEUM THREATS $ NAECON NV DRONGEN BELGIUM IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 727-735 1981

DEMULSIFICATION

0101 BULSTER,R.N., LITTLE,R.C. CHEMICAL DEMULSIFICATION OF SEAWATER IN RESIDUAL OIL EMULSIONS $ US NAV RES LAB WASHINGTON, D.C. ENVIRON INT 3 (2) P. 163-170 1980

0466 LITTLE,R.C. CHEMICAL DEMULSIFICATION OF AGED CRUDE-OIL EMULSIONS $ NAV RES LAB WASHINGTON, D.C. ENVIRON SCI TECHNOL 15 (10) P. 1184-1190 1981

0467 LITTLE,R.C. CHEMICAL DEMULSIFICATION OF TANKER CRUDE EMULSIONS $ NAVAL RESEARCH LAB WASHINGTON, D.C. AD-A083-389/7 57P. 1980

DEMULSIFIER

0866 LANEVAKI,G.P. THE FORMULATION OF AN EFFECTIVE DEMULSIFIER FOR OIL SPILL EMULSIONS $ EXXON RES ENG CO FLURHAM PARK NJ MAR POLLUT BULL 13 (2) P. 49-54 1982

DENHAM,F.R

1037 BROWN,W.J., DENHAM,F.R. AN ECONOMIC EVALUATION OF A MOBILE ROTARY-KILN DESIGNED FOR THE CLEANUP OF OIL CONTAMINATED BEACHES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-10 OTTAWA ONTARIO 1980

DENHARTOG,C

0213 DENHARTOG,C., JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON AN EELGRASS COMMUNITY AT ROSCOFF (FRANCE) WITH SPECIAL REFERENCE TO THE MOBILE BENTHIC FAUNA $ CATHOLIC UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 182-191 1980

DENISOV,E.T

0016 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SOKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

DENNIS,A.J

0218 DICK,R., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-47 1980

0725 SIROTA,G.R., UTHE,J.F., COOKE,M. (ED), DENNIS,A.J. (ED) POLYNUCLEAR-AROMATIC-HYDROCARBON CONTAMINATION IN MARINE SHELL $ HALIFAX LAB DEP FISH OCEANS HALIFAX NS CAN CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 429-41 1981

DENNIS,G.D

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON BOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

DENSITY

0278 ERICKE,A.H., HENNIG,H., OHREN,M.J. RELATIONSHIP BETWEEN OIL POLLUTION AND PSAMMOLITTORAL MEIOFAUNA DENSITY OF 2 SOUTH-AFRICAN BEACHES $ UNIV CAPE TOWN DEPT OF OCEANOG NATL RES INST OCEANOL RONDEBOSCH SOUTH AFRICA MARINE ENVIRONMENTAL RESEARCH 5 (1) P. 59-77 1981

DEPLOYMENT

0314 GREENE,G.D., BRODSKY,A.Z., CHARLES,M.E., MACKAY,D. USE OF DEFLECTORS FOR DEPLOYMENT OF OIL BOOMS IN RIVERS $ ESSO RESOUR CAN LTD CALGARY ALBERTA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 411-417 1979

0733 SMITH,C.F. DEPLOYMENT CONFIGURATIONS FOR IMPROVED OIL CONTAINMENT WITH SELECTED SORBENT BOOMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101650 32P. 1981

DEPRABTERE,P

0214 DEPRABTERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

DEPTH

0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PROC /9: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

DERAILMENT

0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-133376 36P. 1980

DERIVATIVES
0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

DETECT
0059 BECK,K., ABDBA,B., MILLER,D., MALINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

DETECTING
0406 KLAIBER,I. TESTS FOR DETECTING LEAKS IN PETROLEUM PIPELINES $ TECHNISCHES MESSEN 47 (4) 157P. 1980

0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-206032 118P. 1979

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

1009 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASE 1 - LITERATURE REVIEW AND FEASIBILITY STUDY $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-81-3 OTTAWA ONTARIO 1981

DETECTION
0169 LAVAGNARO,D.M. OIL POLLUTION DETECTION AND SENSING 1976-NOVEMBER 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-800997 187P. 1980

0249 ESTES,J.E., WILSON,M., HAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

0258 FENNER,R.G., REID,S.C., SULTE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

0368 HUNDEMANN,A.S. REMOTE-SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT 1964-JULY 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-813140 192P. 1980

DENNIS,A.J

0218 DICK,R., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-47 1980

0725 SIROTA,G.R., UTHE,J.F., COOKE,M. (ED), DENNIS,A.J. (ED) POLYNUCLEAR-AROMATIC-HYDROCARBON CONTAMINATION IN MARINE SHELL $ HALIFAX LAB DEP FISH OCEANS HALIFAX NS CAN CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 429-41 1981

DENNIS,G.D

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

DENSITY

0278 ERICKE,A.H., HENNIG,H., ORREN,M.J. RELATIONSHIP BETWEEN OIL POLLUTION AND PSAMMOLITTORAL METOFAUNA DENSITY OF 2 SOUTH-AFRICAN BEACHES $ UNIV CAPE TOWN DEPT OF OCEANOG NATL RES INST OCEANOL ROSEBOSCH SOUTH AFRICA MARINE ENVIRONMENTAL RESEARCH 5 (1) P. 59-77 1981

DEPLOYMENT

0314 GREENE,G.D., BRODSKY,A.Z., CHARLES,M.E., MACKAY,D. USE OF DEFLECTORS FOR DEPLOYMENT OF OIL BOOMS IN RIVERS $ ESSO RESOUR CAN LTD CALGARY ALBERTA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 411-417 1979

0733 SMITH,C.F. DEPLOYMENT CONFIGURATIONS FOR IMPROVED OIL CONTAINMENT WITH SELECTED SORBENT BOOMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101650 32P. 1981

DEPRABTERE,P

0214 DEPRABTERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

DEPTH

0353 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PROC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

DERAILMENT

0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-133376 36P. 1980

DERIVATIVES
0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

DETECT
0059 BECK,K., ABDBA,B., MILLER,D., KAKLINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

DETECTING
0406 KLAIBER,I. TESTS FOR DETECTING LEAKS IN PETROLEUM PIPELINES $ TECHNISCHES MESSEN 47 (4) 157P. 1980

0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204032 115P. 1979

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

1009 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASE I - LITERATURE REVIEW AND FEASIBILITY STUDY $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-81-3 OTTAWA ONTARIO 1981

DETECTION
0169 CAVAGNARO,D.M. OIL POLLUTION DETECTION AND SENSING 1976-NOVEMBER 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-800997 187P. 1980

0249 ESTES,J.E., WILSON,M., HAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

0258 FENNER,R.G., REID,S.C., SULIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

0368 HUNDEMANN,A.S. REMOTE-SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT 1964-JULY 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-813140 192P. 1980

DETECTION

0521 MISHINA,L.A. METHOD FOR THE DETECTION OF GAS LEAKS $ USSR GAZOV PROM-ST SER: ISPOL'Z GAZA NAR KHOZ (REF INF) (6) P. 28-31 1981

0573 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA RAPID LEAK DETECTION WITH LIQUID-CRYSTALS: SIMPLE TEST PROCEDURE IS INEXPENSIVE AND ACCURATE $ PB-80-971300 1P.

0574 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA DAMAGE DETECTION SYSTEM FOR LNG CARRIERS: AN ACOUSTICAL DAMAGE DETECTION SYSTEM FOR SAFER LNG CARRIERS $ PB-80-915240 1P.

0621 O'NEIL,R.A., BUJA-BIJUNAS,L., RAYNER,D.M. FIELD PERFORMANCE OF A LASER-FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ DEP OF ENERGY MINES AND RESOUR OTTAWA APPL OPT 19 (6) P. 863-870 1980

0636 PASCHALL,V.K. OPERATING EXPERIENCE FOR A GAS PIPELINE LEAK DETECTION SYSTEM $ LONE STAR GAS CO SAGINAW TX PROC INT SCH HYDROCARBON MEAS 56 P. 557-9 1981

0640 PEARSON,W.H., MILLER,S.E., BLAYLOCK,J.W., OLLA,B.L. DETECTION OF THE WATER SOLUBLE FRACTION OF CRUDE-OIL BY THE BLUE-CRAB CALLINECTES-SAPIDUS $ BATTELLE PAC NORTHWEST LAB MAR RES LAB SEQUIM WASH MAR ENVIRON RES 5 (1) P. 3-12 1981

0691 SAMAIN,J.F., MORAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE COZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

0739 SUUM,A., MARTIN,H.R., LEA,J.A. PASSIVE ACOUSTIC DETECTION OF GAS LEAKS IN BURIED PIPES $ STATE UNIV OF NY BUFFALO ASME PAP N 80-WA/NC-17 FOR MEET 10P. 1980

0828 YOUNG,B.S., GEMICI,Y. FLOW MONITORING FOR LEAK DETECTION $ FOXBORO MUNICIPAL SALES INC FOXBORO MA IN: INSTRUMENT SOC AMER ADVANCES IN INSTRUMENTATION 35 PT 1 P. 497-502 1980

0914 KALMYKOV,A.I., PICHUGIN,A.P. SPECIAL FEATURES OF THE DETECTION OF SEA SURFACE INHOMOGENEITIES BY THE RADAR METHODS $ OSOBENNOSTI OBNARUZHENIYA NEODNORODNOSTEI MORSKOI POVERKHNOSTI RADIOLOKATSIONNYM METODOM ACAD OF SCI OF THE UKR SSR INST OF RADIOPHYS AND ELECTRON KIEV IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 754-761 1981

0940 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA REMOTE-SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT 1964-NOVEMBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-802752 231P. 1981

0943 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL POLLUTION DETECTION AND SENSING 1975-JANUARY 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-805797 232P. 1982

DETECTION

1006 RAYNER,D.M. THIN OIL FILM DETECTION LIMITS OF LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-3 OTTAWA ONTARIO 1980

1053 KEMOTEC APPLICATIONS INC LABORATORY EXPERIMENTS IN THE DETECTION OF OIL UNDER ICE $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-26 OTTAWA ONTARIO 1981

1094 O'NEIL,L.B., RAYNER,D.M. FIELD PERFORMANCE OF A LASER FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ REPRINT FROM APPLIED OPTICS 19 (6) P. 863-70 1980

DETERGENT

0827 ZAKOPKA,V.A., KOZAK,V.A., VYKHRESTYUK,N.I., TKACHENKO,D.A. SEPARATION OF PETROLEUM CUTS AND LUBE OILS WITH DETERGENT ADDITIVES BY MEANS OF 2 STAGE CONTINUOUS LIQUID-CHROMATOGRAPHY $ ALL UNION PETR REFINING AND PETROCHEM IND RES AND DESIGN INST MOSCOW CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (11-1) P. 846-850 1979

DETERGENTLESS

0475 LUND,G., HOLT,S.L. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

DETERMINATION

0045 BAJNOCZY,G., KASA,I. SPECTROFLUOROMETRIC DETERMINATION OF PETROLEUM IN DRINKING WATER $ TECH UNIV BUDAPEST HUNG PERIOD POLYTECH CHEM ENG 24 (1) P. 29-33 1980

0066 BELOUS,A.R., NOVIKOV,V.I., IZOTOV,V.I. DETERMINATION OF TEL CONTENT IN GASOLINES BY GAMMA-ABSORPTION METHOD $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 913-914 1979

0347 HERMANN,M., CHAUDE,O., WEILL,N., BEDOUELLE,M., HOENUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

0504 MCGILL,W.B., ROWELL,M.J. DETERMINATION OF OIL CONTENT OF OIL CONTAMINATED SOIL $ UNIV ALBERTA DEPT SOIL SCI EDMONTON ALBERTA CANADA SCIENCE OF THE TOTAL ENVIRONMENT 14 (3) P. 245-253 1980

0682 KOSAHL,N., ECKNIG,W. GAS-CHROMATOGRAPHIC METHOD FOR DETERMINATION OF RESIDUAL OIL AFTER OIL SEPARATORS IN COMPRESSOR INSTALLATIONS $ VEB KOHLAUTOMAT BERLIN GER CHEMISCHE TECHNIK 32 (11) P 589-593 1980

0693 SAMPSON,A.R., SMITH,R.L. ASSESSING RISKS THROUGH THE DETERMINATION OF RARE EVENT PROBABILITIES $ AIR FORCE OFFICE OF SCIENTIFIC RESEARCH BOLLING AFB D.C. AD-A092-192/4 47P. 1980

DETERMINATION
0819 WISE,S.A., CHESLER,S.N., HERTZ,H.S., MAY,W.E., GUENTHER,F.R. DETERMINATION OF TRACE LEVEL HYDROCARBONS IN MARINE BIOTA $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-126278 11P. 1980

0911 HUPKA,J. DETERMINATION OF THE SORPTION CAPACITY OF SORBENTS USED TO CLEAN-UP OIL SPILLS $ POL PL STUD WATER RESOUR 35 P. 261-78 1981

1128 EYRES,A.R. GUIDELINES FOR THE DETERMINATION OF ATMOSPHERIC CONCENTRATIONS OF OIL MISTS $ CONCAWE 1981

DETERMINATIONS
0820 WISE,S.A., CHESLER,S.N., GUENTHER,F.R., HERTZ,H.S. HILPERT,L.R. INTERLABORATORY COMPARISON OF DETERMINATIONS OF TRACE LEVEL HYDROCARBONS IN MUSSELS $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-140253 6P. 1980

DETERMINE
0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

DEUTSCH,J.P
0215 DEUTSCH,M., VOLLMERS,R.R., DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

DEUTSCH,M
0215 DEUTSCH,M., VOLLMERS,R.R., DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

DEVELOPMENTAL
0160 CAPUZZO,J.M. CRUDE-OIL EFFECTS TO DEVELOPMENTAL STAGES OF THE AMERICAN LOBSTER $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-82-117656 108P. 1981

DEVELOPMENTS
0382 JENKINS,R.H. OILY WATER DISCHARGES FROM OFFSHORE OIL DEVELOPMENTS $ BP TRADING LTD CTR ENVIRONM CONTROL SUNBURY ENGL IN: UPTON,C.K. PROCEEDINGS OF THE NINTH ENVIRONMENTAL WORKSHOP ON OFFSHORE HYDROCARBON DEVELOPMENT P. 354-371 1980

DEVELOPMENTS
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.D.K., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MUSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.K. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

DEVEREUX,R
0879 DEVEREUX,R., SIZEMORE,R.K. PLASMID INCIDENCE IN MARINE BACTERIA ISOLATED FROM PETROLEUM POLLUTED SITES ON DIFFERENT PETROLEUM HYDROCARBONS $ UNIV N CAROLINA DEPT BIOL WILMINGTON NC MARINE POLLUTION BULLETIN 13 (6) P. 198-202 1982

DEVICE
1122 ISANG,G. THEORETICAL STUDY FOR GUIDANCE OF MODEL STUDY OF SUBSEA BLOWOUT CONTAINMENT DEVICE $ ENVIRONMENTAL EMERGENCY BRANCH OTTAWA ONTARIO NORTH-TECH 1980

DEVICES
0084 BJORKLUND,R.A., KUSHIDA,R.D. FLASHBACK FLAME-ARRESTER DEVICES FOR FUEL CARGO TANK VAPOR VENTS $ COAST GUARD WASHINGTON, D.C. AD-A100-040/5 127P. 1981

0161 CARD,J.C., COOPER,H.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-711/3 174P. 1979

0188 COMFORT,G., MENON,B., PURVES,W.F. FEASIBILITY OF WATER-SPRAY-BARRIERS AS FIREPROOF OIL SLICK CONTAINMENT DEVICES $ ARCTEC CAN LTD KANATA ONT OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S SEATTLE WASH P. 422-427 1980

1038 ISANG,G. THEORETICAL STUDY FOR THE SCALE MODELLING OF SUBSEA CONTAINMENT DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-11 OTTAWA ONTARIO 1980

1044 ENERGEX ENGINEERING ARCTIC FIELD TRIALS OF THE DREV/AMOP INCENDIARY DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-17 OTTAWA ONTARIO 1981

1055 LEA,B.N. FIELD EVALUATION OF OIL SPILL TRACKING DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-28 OTTAWA ONTARIO 1982

DENHURST,M.P
0493 MARCUS,H.S., DENHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

DEWLING,R.T

0216 DEWLING,R.T., MCCARTHY,L.T. CHEMICAL AGENTS FOR OIL SPILL CONTROL $ EPA NEW YORK USA ADV ENVIRON SCI ENG 4 P. 146-60 1981

0217 DEWLING,R.T., MCCARTHY,L.T. CHEMICAL TREATMENT OF OIL SPILLS $ US EPA NEW YORK ENVIRON INT 3 (2) P. 155-162 1980

DHAWAN,G.K

0416 KUTJWY,U., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES CNCL OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

DIA-STEREOMERIC-ISOPRENOIDS

0842 BERTHOU,F., FRIOCOURT,M.P. GAS-CHROMATOGRAPHIC SEPARATION OF DIA-STEREOMERIC-ISOPRENOIDS AS MOLECULAR MARKERS OF OIL POLLUTION $ LAB DE CHROMATOGRAPHIE SERVICE DE BIOCHIM BREST CEDEX FR

DIAGENETIC

0259 FERGUSON,J.D. FORMATION OF DIAGENETIC ALTERATION ZONES BY LEAKING RESERVOIR HYDROCARBONS OVER 3 OIL-FIELDS IN OKLAHOMA $ GULF OIL EXPLORAT AND PROD CO HOUSTON TX AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (5) 924P. 1981

DICK,K

0218 DICK,K., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-40 1980

DICKENS,D.F

1027 DICKENS,D.F. ICE CONDITIONS $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-8 OTTAWA ONTARIO 1981

DICKINS,D

1069 BUIST,I., DICKINS,D. OIL AND GAS UNDER SEA ICE STUDY - VOLUMES 1 AND 2 $ DOME PETROLEUM LIMITED 1981

DICKSON,J.G

0219 DICKSON,J.G., ADAMS,V.D. EVALUATION OF MUTAGENICITY TESTING OF EXTRACTS FROM PROCESSED OIL-SHALE $ OFFICE OF WATER RESEARCH AND TECHNOLOGY WASHINGTON, D.C. PB-80-203458 52P. 1980

DIDENKO,V.S

0220 DIDENKO,V.S. RHEOLOGICAL PROPERTIES OF WATER-OIL EMULSIONS TRANSPORTED IN PIPELINES $ NEFTYANOE KHOZYAISTVO (12) P. 53-56 1980

DIESEL

0642 PEPELKO,W.E., MATTOX,J.K., YANG,Y.Y., MOORE,W. JR. PULMONARY FUNCTION AND PATHOLOGY IN CATS EXPOSED 28 DAYS TO DIESEL EXHAUST $ HEALTH EFFECTS RESEARCH LAB CINCINNATI OHIO PB-81-196578 11P. 1980

DIESEL

0797 VINEGAR,A., CARSON,A.I., PEPELKO,W.E. PULMONARY FUNCTION CHANGES IN CHINESE HAMSTERS EXPOSED SIX MONTHS TO DIESEL EXHAUST $ DEP ENVIRON HEALTH UNIV CINCINNATI OHIO PROC INT SYMP PB-81-138177 P. 749-56 1980

0841 BELSKY,J. DIESEL OIL SPILL IN A SUBALPINE MEADOW 9 YEARS OF RECOVERY $ SYRACUSE UNIV DEPT BIOL SYRACUSE NY CANADIAN JOURNAL OF BOTANY 60 (6) P. 906-910 1982

DIESEL-FUEL

0716 SHEFNER,A.M. RESPIRATORY CARCINOGENICITY OF DIESEL-FUEL EMISSIONS $ III RESEARCH INST CHICAGO IL PB-81-230955 35P. 1981

0789 VASHCHENKO,M.A. THE EFFECT OF WATER-SOLUBLE HYDROCARBON FRACTIONS OF DIESEL-FUEL ON THE DEVELOPMENT OF GAMETES AND QUALITY OF THE OFFSPRING IN THE SEA-URCHIN STRONGYLOCENTROTUS-NUDUS $ ACAD SCI USSR BIOLOGIYA MORYA-MARINE BIOLOGY (4) 68P. 1980

DIETEK,M.P

0747 STICKEL,L.F., DIETEK,M.P. ECOLOGICAL AND PHYSIOLOGICAL/TOXICOLOGICAL EFFECTS OF PETROLEUM ON AQUATIC BIRDS A SUMMARY OF RESEARCH ACTIVITIES FY76 $ FISH AND WILDLIFE SERVICE LAUREL MD PB-80-127265 20P. 1979

DIETRICH,P

0103 BORKMANN,G., DIETRICH,P. INTERNATIONAL IAH SYMPOSIUM ON GROUND-WATER POLLUTION BY OIL HYDROCARBONS HELD AT PRAGUE 5-9 JUNE 1978 $ ZEITSCHRIFT FUR ANGEWANDTE GEOLOGIE 26 (5) P. 274-276 1980

DIFFUSION

1146 MACKAY,D. THREE DIMENSIONAL DIFFUSION OF DISSOLVED AND DISPERSED OIL IN THE WATER COLUMN UNDER OIL SLICKS $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1980

DIMOCK,C.W

0221 DIMOCK,C.W., LAKE,J.L., NORWOOD,C.B., BOWEN,R.D., HUFFMAN,E.J. FIELD AND LABORATORY METHODS FOR INVESTIGATING A MARINE GASOLINE SPILL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-185712 5P. 1981

0420 LAKE,J.L., DIMOCK,C.W., NORWOOD,C.B. COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ EPA NARRAGANSETT RI ADV CHEM SER 185 PET IN THE MAR ENVIRON SYMP AT THE MEET OF THE ACS P. 343-360 1980

0421 LAKE,J.L., DIMOCK,C.W., NORWOOD,C.B. A COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-165839 20P. 1981

DIOURIS,M

0267 BLOCH,J.Y., DIOURIS,M. EFFECT OF AMOCO-CADIZ OIL SPILL ON PORTSALL (FRANCE) ALGAE: ECOLOGICAL SURVEY ON A VERY POLLUTED AREA $ INST ETUD MAR UNIV BRETAGNE OCCIDENT BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOO INT P. 361-91 1979

DIDURIS,M

0268 FLOCH,J.Y., DIDURIS,M. INITIAL EFFECTS OF AMOCO-CADIZ OIL ON INTERTIDAL ALGAE $ BREST UNIV FR AMBIO 9 (6) P. 284-286 1980

DIPERNA-SWEEPER

0105 BRESLIN,M.K. PERFORMANCE TESTING OF THE DIPERNA-SWEEPER $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-109174 44P. 1981

DISASTER

0092 BUCARD,C., RENAULT,P., CROQUETTE,J. CLEANING PRODUCTS USED IN OPERATIONS AFTER THE AMOCO-CADIZ DISASTER $ INST FR DU PET RUEIL MALMAISON FR PROC - OIL SPILL LOS ANGELES CALIF P. 163-167 1979

DISASTERS

0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

DISCHARGES

0382 JENKINS,R.H. OILY WATER DISCHARGES FROM OFFSHORE OIL DEVELOPMENTS $ BP TRADING LTD CTR ENVIRONM CONTROL SUMMARY ENGL IN: UPTON,C.K. PROCEEDINGS OF THE NINTH ENVIRONMENTAL WORKSHOP ON OFFSHORE HYDROCARBON DEVELOPMENT P. 354-371 19..

1123 ANONYMOUS EXISTING AND PROPOSED PROGRAMS AND MEASURES FOR THE PREVENTION OF DISCHARGES OF OIL OR HAZARDOUS POLLUTING SUBSTANCES FROM ONSHORE AND OFFSHORE FACILITIES $ MINISTRY OF THE ENVIRONMENT OTTAWA ONTARIO 1981

DISEASE

0979 SINDERMANN,C.J. IMPLICATIONS OF OIL POLLUTION IN PRODUCTION OF DISEASE IN MARINE ORGANISMS $ NOAA NATL MARINE FISHERIES SERV SANDY HOOK NJ PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 385-399 1982

DISPENSING/COLLECTION

0728 SKAALEN,C.I., KAUSCH,A.B. ENGINEERING EVALUATION OF SORBENT DISPENSING/COLLECTION SYSTEM UNIVERSAL MOUNTING ARRANGEMENT $ CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA AD-A078-431/4 46P. 1979

DISPERSAL

0605 NUTINI,M., MATTSSON,J., LINDEN,O. DISPERSAL AND EFFECTS OF THE ANTONIO-GRAMSCI OIL SPILL IN THE STOCKHOLM ARCHIPELAGO $ SWEDISH WATER AND AIR POLLUTION RESEARCH LAB FRYKSTA 32P. 1980

0624 USAMDR,C.A. OIL SLICK DISPERSAL MECHANICS: SPREADING DISSOLUTION AND CHEMICAL DISPERSION $ RUTGERS UNIV THE STATE UNIV OF NEW JERSEY NEW BRUNSWICK NJ 442P. 1981

0625 USAMDR,C.A., AHLERT,R.C. OIL SLICK DISPERSAL MECHANICS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-105560 238P. 1981

DISPERSANT

0091 HUBKA,A., MACKAY,D., SHIU,W.Y. DISTRIBUTION OF HYDROCARBONS AMONG OIL WATER AND VAPOR PHASES DURING OIL DISPERSANT TOXICITY TESTS $ UNIV OF TORONTO ENI BULL ENVIRON CONTAM TOXICOL 23 (4-5) P. 558-565 1979

0095 BURST,M., SMITH,G.F. DISPERSANT APPLICATION SYSTEM FOR THE US COAST GUARD 32-FOOT WPB (WATERWAYS PATROL BOAT) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101684 32P. 1981

0262 FINGERMAN,S.W. DIFFERENCES IN THE EFFECTS OF FUEL OIL AN OIL DISPERSANT AND THREE POLYCHLORINATED-BIPHENYLS ON FIN REGENERATION IN THE GULF COAST KILLIFISH FUNDULUS-GRANDIS $ TULANE UNIV NEW ORLEANS LA BULL ENVIRON CONTAM TOXICOL 25 (2) P. 234-240 1980

0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., ROWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD CONCNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

0609 MUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

0623 ORDZIE,C.J., GARGFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

0667 REWICK,R.T., GATES,J., SMITH,J.H. SIMPLE TEST OF DISPERSANT EFFECTIVENESS BASED ON INTERFACIAL-TENSION MEASUREMENTS $ STANFORD RES INST INT MENLO PARK CALIF FUEL 59 (4) P. 263-265 1980

0676 ROGERSON,A., BERGER,J. THE TOXICITY OF THE DISPERSANT COREXIT-9527 AND OIL DISPERSANT MIXTURES TO CILIATE-PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CHEMOSPHERE 10 (1) P. 33-39 1981

0824 WU,R.S.S. DIFFERENCES IN THE TOXICITIES OF AN OIL DISPERSANT AND A SURFACE ACTIVE AGENT TO SOME MARINE ANIMALS AND THEIR IMPLICATIONS IN THE CHOICE OF SPECIES IN TOXICITY TESTING $ FISHERIES RES STN ABERDEEN HONG KONG MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 157-163 1981

0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

DISPERSANT

0839 BATTERSHILL,C.N., BERGQUIST,P.R. RESPONSES OF AN INTER-TIDAL GASTROPOD TO FIELD EXPOSURE OF AN OIL AND A DISPERSANT $ UNIV AUCKLAND DEPT ZOOL AUCKLAND NEW ZEALAND MARINE POLLUTION BULLETIN 13 (5) P. 159-162 1982

0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

0889 FUCHT,J.M., WESTLAKE,D.W.S. EFFECT OF THE DISPERSANT COREXIT-9527 ON THE MICROBIAL DEGRADATION OF PRUDHOE-BAY OIL $ UNIV ALBERTA DEPT MICROBIOL EDMONTON ALBERTA CANADA CANADIAN JOURNAL OF MICROBIOLOGY 28 (1) P. 117-122 1982

1059 MACKAY,D. OIL-WATER INTERFACIAL-TENSIONS IN CHEMICAL DISPERSANT SYSTEMS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-32 OTTAWA ONTARIO 1982

1064 INTERA ENVIRONMENTAL CONSULTANTS LIMITED REMOTE-SENSING ANALYSIS OF THE OIL SPILL DISPERSANT SEA TRIAL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-40 OTTAWA ONTARIO 1982

1086 BEAK CONSULTANTS LIMITED TOXICITY OF OIL AND OIL/ DISPERSANT MIXTURES $ EXXON CHEMICAL COMPANY HOUSTON TEXAS 1980

1088 NAGY,E., SCOTT,B.F., HART,J. THE FATE OF OIL AND DISPERSANT MIXTURES IN FRESHWATER ECOSYSTEMS $ NATIONAL WATER RESEARCH INSTITUTE ENVIRONMENT CANADA BURLINGTON ONTARIO 1980

1090 LEA,B.N. OCEANOGRAPHIC STUDIES IN SUPPORT OF AN OFFSHORE DISPERSANT TRIAL $ DEBRUCKY SEATECH (NFLD) LTD NEWFOUNDLAND CANADA 1982

DISPERSANTS

0009 ALBERS,P.H. OIL DISPERSANTS AND WILDLIFE $ USFWS PATUXENT WILDLIFE RESEARCH CENTER LAUREL MD US FISH AND WILDLIFE SERVICE POLLUTION RESPONSE WORKSHOP ST PETERSBURG FLORIDA P. 67-72 1979

0052 BAKER,C.D. APPLICATION OF CHEMICAL DISPERSANTS AT SEA $ SOUTH CALIF PET CONTINGENCY ORGAN SAN PEDRO ANNU MEET PAP AM PET INST PROD DEP NEW ORLEANS LA P. A. 1-A. 1979

0159 CANEVARI,G.P. RESTORATION OF OILED SHORELINES BY THE PROPER USE OF CHEMICAL DISPERSANTS $ EXXON RES AND ENG CO FLORHAM PARK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 443-446 1979

0302 GIERE,O. THE IMPACT OF CRUDE-OIL AND OIL DISPERSANTS ON THE MARINE OLIGOCHAETE MARIONINA-SUBTERRANEA $ UNIV HAMBURG INST ZOOL HAMBURG GER CAHIERS DE BIOLOGIE MARINE 21 (1) P. 51-60 1980

DISPERSANTS

0321 GUNKEL,W., GASSMANN,G. OIL DISPERSANTS AND RELATED SUBSTANCES IN THE MARINE-ENVIRONMENT $ BIOL ANSTALT HELGOLAND MEERESSTN HELGOLAND GER HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 164-181 1980

0479 MACKAY,D., WATSON,A., NG,C., NADEAU,S. BEHAVIOR AND EFFECTIVENESS OF DISPERSANTS AT SEA AND AT SHORELINES $ UNIV OF TORONTO ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 447-452 1979

0499 MAZMANIDI,N.D., KOTOV,A.M. EFFECT OF PETROLEUM DISPERSANTS ON THE SURVIVAL RATE AND SOME PHYSIOLOGICAL-BIOCHEMICAL BLOOD INDEXES OF THE BLACK SEA SEA-BASS (SPICARA-SMARIS-L.) $ USES NAUCHNO-ISSLED INST MORSK RYBN KHOZ OKEANOGR BATUMI USSR GIDROBIOL ZH 17 (1) P. 74-8 1981

0502 MCCARTHY,L.T. JR., LINDBLOM,G.P., WALTER,H.F. CHEMICAL DISPERSANTS FOR THE CONTROL OF OIL SPILLS $ EPA EDISON NJ CHEMICAL DISPERSANTS FOR THE CONTROL OF OIL SPILLS WILLIAMSBURG VIRGINIA 1977

0510 MEEKS,D.G. PERFORMANCE OF SOME OIL DISPERSANTS ON OIL SLICKS OF VARYING THICKNESS $ BRITISH PETR CO LTD BP RES CTR CHERTSEY RD SUNBURY ON THAMES MIDDLESEX ENGLAND MARINE POLLUTION BULLETIN 11 (12) P. 348-352 1980

0745 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RECOMMENDATIONS FROM A RESEARCH APPRAISAL $ DEP ZOOL UNIV GUELPH GUELPH ONT MAR POLLUT BULL 12 (2) P. 45-46 1981

0767 THOMPSON,G.B., WU,R.S.S. TOXICITY TESTING OF OIL SLICK DISPERSANTS IN HONG-KONG $ FISHERIES RES STN ABERDEEN HONG KONG MARINE POLLUTION BULLETIN 12 (7) P. 233-237 1981

0949 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL: DISPERSANTS ABSORBANTS BOOMS AND SKIMMERS 1978-JANUARY 1982 (CITATIONS FROM THE INFORMATION RETRIEVAL LTD DATA BASE) $ PB82-859125 79P. 1982

1016 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-2 OTTAWA ONTARIO 1982

1028 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS - RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-1 OTTAWA ONTARIO 1980

1033 MACKAY,D., KRISTMANSON,D.D., PICOT,J.J.C., SMEDLEY,J.B. THEORETICAL ASSESSMENT AND DESIGN STUDY OF THE AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-6 OTTAWA ONTARIO 1980

1081 MACKAY,D., SZETO,F. EFFECTIVENESS OF OIL SPILL DISPERSANTS - DEVELOPMENT OF A LABORATORY METHOD AND RESULTS FOR SELECTED COMMERCIAL PRODUCTS $ INSTITUTE FOR ENVIRONMENTAL STUDIES TORONTO CANADA 1981

DISPERSANTS

1082 ANONYMOUS OIL SPILL CLEANUP MANUAL VOLUME III RELIANCE ON CHEMICAL DISPERSANTS FOR AN OIL SPILL RESPONSE $ EXXON CORPORATION HOUSTON TEXAS 1983

1089 ANONYMOUS AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ INTERNATIONAL TANKER OWNERS POLLUTION FEDERATION LTD HOUNDSDITCH LONDON 1982

1091 GILL,S.D. THE SUFFIELD FIELD TRIAL OF AERIALLY APPLIED OIL SPILL DISPERSANTS $ PETROLEUM ASSOCIATION FOR CONSERVATION OF THE CANADIAN ENVIRONMENT OTTAWA CANADA 1981

1092 ASLIN,J., HUSSAIN,K., MACKAY,D. EFFECTIVENESS OF AERIALLY APPLIED DISPERSANTS $ DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED CHEMISTRY TORONTO CANADA 1981

DISPERSE

0581 MURZAKOV,R.M., SABANENKOV,S.A., SYUNYAEV,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 674-677 1980

0685 KUZENISVAIG,A.K., TRONOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

DISPERSED

0043 BAGNULO,L. RECOVERY SYSTEMS FOR DISPERSED OIL PRODUCTS $ SOC REMCO ITALY AES 2 (2) P. 53-5 1980

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

1014 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF DISPERSED OIL ON AN ESTUARINE ISOPOD $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-1 OTTAWA ONTARIO 1982

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1983

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

1061 MACKAY,D., HUSSAIN,K. AN EXPLORATORY STUDY OF SEDIMENTATION OF NATURALLY AND CHEMICALLY DISPERSED OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-35 OTTAWA ONTARIO 1982

DISPERSED

1146 MACKAY,D. THREE DIMENSIONAL DIFFUSION OF DISSOLVED AND DISPERSED OIL IN THE WATER COLUMN UNDER OIL SLICKS $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1980

DISPERSER

0828 ZHU,J.-C. PREPARATION OF A DISPERSER FOR OIL SPILLS $ INST SCI RES MINIS TRANSPORTATION PEOP REP CHINA HUAN CHING K'O HSUEH 1 (5) P. 62-6, 47 1980

DISPERSION

0030 ASIF,A.M., TATTERSON,G.B. OIL WATER DISPERSION MECHANISMS IN AGITATED VESSELS $ UNIV S CAROLINA COLUMBIA SC IN: VEZIROGLU,T.N. MULTIPHASE TRANSPORT 5 VOLS FUNDAMENTALS REACTOR SAFETY APPLICATIONS P. 133-144 2932P. 1980

0056 BEAN,R.M., BLAYLOCK,J.W., RILEY,R.G. APPLICATION OF TRACE ANALYTICAL TECHNIQUES TO A STUDY OF HYDROCARBON COMPOSITION UPON DISPERSION OF PETROLEUM IN A FLOWING SEAWATER SYSTEM $ BATTELLE MEM INST PACIFIC NW LABS BATTELLE BLVD RICHLAND WA IN: PETRAKIS,L., WEISS,F.T. PETROLEUM IN THE MARINE ENVIRONMENT 185 P. 235-246 1980

0168 CASTLE,R.W., SCHRIER,E. DECISION CRITERIA FOR THE CHEMICAL DISPERSION OF OIL SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 459-463 1979

0228 DRAKE,E.M., WESSON,H.R. REVIEW OF LNG SPILL VAPOR DISPERSION AND FIRE HAZARD ESTIMATION AND CONTROL METHODS $ ARTHUR D. LITTLE INC CAMBRIDGE MASS AM GAS ASSOC OPER SECT PROC 17P. 1976

0301 GIDEON,D.N., PUTNAM,A.A. DISPERSION HAZARD FOR SPILLS OF LNG ON LAND AND ON WATER $ BATTELLE COLUMBUS LAB OHIO CRYOGENICS 17 (1) P. 9-15 1977

0344 HELLMANN,H., MUELLER,D. TESTING THE TECHNICAL EFFICIENCY AND THE TOXICITY OF CHEMICAL AGENTS FOR DISPERSION OF CRUDE-OIL ON WATER SURFACES $ BUNDESANST GEWAESSERKD.KOBLENZ FED REP GER DISCH GEWAESSERKD MITT 25 (2) P. 56-9 1981

0418 KUZNETSOV,A., GRITSKOV,V.S., KHOMYAKOV,V.M., KUDINOV,Y. DISPERSION SYSTEM FOR PREPARING OIL-WATER EMULSIONS $ METALLURGIST 23 (7-8) P. 554-556 1979

0469 LIU,H., CHENG,A.H.D. MODIFIED FICKIAN MODEL FOR PREDICTING DISPERSION $ UNIV OF MD COLUMBIA ASCE J HYDRAUL DIV 106 (6) P. 1021-1040 1980

0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.H., CANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-18 1980

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

DISPERSION

0624 OSAMOR,C.A. OIL SLICK DISPERSAL MECHANICS: SPREADING DISSOLUTION AND CHEMICAL DISPERSION $ RUTGERS UNIV THE STATE UNIV OF NEW JERSEY NEW BRUNSWICK NJ 442P. 1981

0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

0718 SHINN,J.H., CEDERWALL,R.T. SELECTING OPTIMUM PERIODS FOR ATMOSPHERIC DISPERSION TESTS OVER WATER SURFACES AT FRENCHMAN FLAT NEVADA TEST SITE $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 12P. 1981

0924 MACKAY,D., WELLS,P.G., PATERSON,S. CHEMICAL DISPERSION OF OIL SPILLS: AN INTERNATIONAL RESEARCH SYMPOSIUM $ TORONTO UNIV (ONTARIO) INST FOR ENVIRONMENTAL STUDIES 223P. 1980

DISPOSAL

0006 AHO,H., GUERIN,M. OILY DEBRIS DISPOSAL PROBLEM IN MAINE $ DEP OF ENVIRON PROT AUGUSTA ME ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 36-61 1980

0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

0163 CARON,D.D. EMERGENCY DISPOSAL OF OIL SPILL AND WASTES IN NORTHERN AND CENTRAL CALIFORNIA $ US COAST GUARD SAN FRANCISCO CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 62-75 1980

0251 FARLOW,J.S. (ED), SWANSON,C. (ED) DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION (SYMPOSIUM) 1978 $ EPA OFF OF RES AND DEV EDISON NJ ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP 147P. 1978

0257 FEELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

0277 FREY,J.M. ENVIRONMENTAL IMPACTS OF OIL-SHALE WASTE DISPOSAL JANUARY 1976-JUNE 1980 (CITATIONS FROM THE ENERGY DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-852527 82P. 1980

0333 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. DISPOSAL SYSTEMS FOR OIL RECOVERED FROM MARINE SPILLS $ SCS ENG LONG BEACH CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 15-28 1978

DISPOSAL

0334 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. OIL SPILL DEBRIS DISPOSAL HARDWARE SYSTEMS: METHODS FOR CONCEPTUALIZATION AND DEVELOPMENT $ SCS ENG LONG BEACH CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 507-513 1979

0351 MILLMAN,S.D.J. STORAGE AND DISPOSAL OF OILY WASTE IN ALASKA $ SOHIO PET CO ANCHORAGE ALASKA ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 88-97 1978

0355 HUFFMAN,E.J., FALKE,A.M., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

0362 HOLMES,P.D. PRACTICAL EXPERIENCES OF THE HANDLING AND DISPOSAL OF WATER-IN-OIL EMULSIONS $ BR PET CO LONDON ENGL ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 98-108 1980

0408 KNOWLTON,H.E., RUCKER,J.E. REFINERY OILY WASTE TREATMENT AND DISPOSAL TECHNIQUES AND THEIR POTENTIAL APPLICATION TO OIL SPILL DEBRIS $ CHEVRON RES CO RICHMOND CALIF DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP DENVER COLO P. 109-117 1978

0674 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

0675 ROGERS,J.E., LI,S.W. MICROBIOLOGICAL ASPECTS OF THE GROUND DISPOSAL OF OIL-SHALE WASTES $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 7P. 1978

0698 SCHIEGG,H.O. FIELD INFILTRATION AS A METHOD FOR THE DISPOSAL OF OIL-IN-WATER EMULSIONS FROM THE RESTORATION OF OIL POLLUTED AQUIFERS $ LAB HYDRAULICS HYDROL GLACIOL SWISS FED INST TECHNOL ZURICH SWITZ WATER RES 14 (8) P. 1011-16 1980

0790 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DE-ROOCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE REP (9) 52P. 1980

0830 WAHBEH,M. DISPOSAL OF OILY WASTE FROM OIL SPILLS BY LAND FARMING $ HAZARDOUS MAT MANAGEMENT INC CASTRO VALLEY CA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 29-35 1980

1113 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DEBROCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE 1980

1114 BUNNIER,P.E. SLUDGE FARMING A TECHNIQUE FOR THE DISPOSAL OF OILY REFINERY WASTES $ CONCAWE 1980

DISPOSAL

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ TERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

DISPOSE

0857 BREUEL,A. (ED.) POLLUTION TECHNOLOGY REVIEW NO 67: HOW TO DISPOSE OF OIL AND HAZARDOUS CHEMICAL SPILL DEBRIS $ USA 420P. 1981

DISSEMINATION

0269 FLORIDA UNIV GAINESVILLE DEPT OF ZOOLOGY THE DISSEMINATION AND COMBUSTION OF UNCONFINED LIQUEFIED-NATURAL-GAS CLOUDS $ AD-A089-315/6 59P. 1979

DISSOLUTION

0624 OSAMOR,C.A. OIL SLICK DISPERSAL MECHANICS: SPREADING DISSOLUTION AND CHEMICAL DISPERSION $ RUTGERS UNIV THE STATE UNIV OF NEW JERSEY NEW BRUNSWICK NJ 442P. 1981

DISSOLVED

0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LOW HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

0991 TOPGI,K.S., NORONHA,R.J., PONDEKAR,S.P., SENGUPTA,R. DISSOLVED PETROLEUM HYDROCARBONS ALONG THE OIL TANKER ROUTE IN THE SOUTHERN BAY OF BENGAL $ NATL INST OCEANOG DONA PAULA GOA DAMAN AND DIU INDIA INDIAN JOURNAL OF MARINE SCIENCES 11 (2) P. 175-176 1982

1146 MACKAY,D. THREE DIMENSIONAL DIFFUSION OF DISSOLVED AND DISPERSED OIL IN THE WATER COLUMN UNDER OIL SLICKS $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1980

DISSOLVING

0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE DR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

DISTILLATION-PYROLYSIS

0809 WHELAN,J.K., HUNT,J.M., HOC,A.Y. APPLICATIONS OF THERMAL DISTILLATION-PYROLYSIS TO PETROLEUM SOURCE ROCK STUDIES AND MARINE POLLUTION $ DEPT CHEM WOODS HOLE MA JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS 2 (1) P. 79-96 1980

DISTRIBUTION

0076 BESLIER,A., BIKRIEN,J.L., CABIOCH,L., LARSONNEUR,C., LEBURGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

DISTRIBUTION

0091 BUBRA,A., MACKAY,D., SHIU,W.Y. DISTRIBUTION OF HYDROCARBONS AMONG OIL WATER AND VAPOR PHASES DURING OIL DISPERSANT TOXICITY TESTS $ UNIV OF TORONTO ONT BULL ENVIRON CONTAM TOXICOL 23 (4-5) P. 558-565 1979

0271 FONDEKAR,S.P., TOPGI,R.S., NORONHA,R.J. DISTRIBUTION OF PETROLEUM HYDROCARBONS IN GOA COASTAL WATERS $ NAIL INST OCENOG GOA INDIA INDIAN JOURNAL OF MARINE SCIENCES 9 (4) P. 286-288 1980

0280 FURZER,I.A. DISTRIBUTION OF OIL POLLUTION RESIDUES $ UNIV OF SYDNEY AUST ASCE J ENVIRON ENG DIV 106 (6) P. 1171-1189 1980

0478 MACCUBBIN,A.E., KATOR,H. DISTRIBUTION ABUNDANCE AND PETROLEUM DEGRADING POTENTIAL OF MARINE BACTERIA FROM MIDDLE ATLANTIC CONTINENTAL SHELF WATERS $ VIRGINIA INST MARINE SCI DEPT MICROBIOL PATHOL GLOUCESTER POINT VA IN: BOURQUIN,A.W., PRITCHARD,P.H. PROCEEDINGS OF THE WORKSHOP: MICROBIAL DEGRADATION OF POLLUTANTS IN MARINE ENVIRONMENTS P. 380-395 1979

0489 MARCHAND,M., MONFORT,J.P., RUBIO,C. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE "AMOCO-CADIZ" OIL SPILLS $ CNEXO BREST FR AM CHEM SOC DIV ENVIRON CHEM PREPR 20 (2) P. 97-99 1980

0490 MARCHAND,M., MONFORT,J.P., RUBIO,C.A. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE AMOCO-CADIZ AND EXTOC-1 OIL SPILLS $ CTR OCEANOL BRETAGNE BREST FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 37P. 1980

0491 MARCHAND,M.H. THE AMOCO-CADIZ OIL SPILL DISTRIBUTION AND EVOLUTION OF HYDROCARBON CONCENTRATIONS IN SEAWATER AND MARINE SEDIMENTS $ CENT OCEANOL BRETAGNE CNEXO BREST FR ENVIRON INT 4 (5-6) P. 421-9 1980

0603 NOMURA,A., MORITA,Y., KOGURE,Y. NITROGEN COMPOUNDS IN PETROLEUM "EM-DASH" 4 DISTRIBUTION PROFILES OF NITROGEN COMPOUNDS IN PETROLEUM BY SOLID-LIQUID CHROMATOGRAPHY $ NATL CHEM LAB FOR IND TOKYO JPN BULL CHEM SOC JPN 52 (3) P. 817-820 1979

0751 STRAUGHAN,D. DISTRIBUTION OF TAR AND RELATIONSHIP TO CHANGES IN INTERTIDAL ORGANISMS ON SANDY BEACHES IN SOUTHERN CALIFORNIA $ UNIV OF SOUTH CALIF LOS ANGELES PROC - OIL SPILL CONF LOS ANGELES CALIF P. 591-601 1979

0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LMW HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

DISTRIBUTIONS

0851 BOEHM,P.D., FLEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-I BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

DISTURBANCE

0158 CABIOCH,L. POLLUTION OF SUBTIDAL SEDIMENTS AND DISTURBANCE OF BENTHIC-ANIMAL COMMUNITIES $ ROSCOFF BIOL STN FR AMBIO 9 (6) P. 294-296 1980

DISTURBED

0875 COLLEY,J.L.B., DOW,B.K., PRESANT,E.W., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION $ AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

DITTON,R.B

0974 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME I $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217852 332P. 1982

0975 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME II EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA

DIVERTER

0756 SUTER,W.R. AUTOMATIC DIVERTER REDUCES SHALLOW BLOWOUT HAZARD $ WORLD OIL 182 (5) 53P. 1976

1139 ANONYMOUS AIR BUBBLE DIVERTER $ CANADIAN PETROLEUM ASSOCIATION CALGARY ALBERTA 1980

DOHERTY,C.B

0222 DOHERTY,C.B., GAUVIN,C.A., MARCOLINI,R.A., OBRIEN,J.L. OPEN OCEAN POLLUTION RESPONSE THE COAST GUARD SYSTEM $ US COAST GUARD OFFSHORE TECHNOL CONF 12TH ANNU PROC 1 P. 245-253 1980

DOMERACKI,D.D

0223 DOMERACKI,D.D., GUNDLACH,E.R., THEBEAU,L.C. COASTAL PLANNING FOR OFFSHORE PETROLEUM DEVELOPMENT $ RES PLANNING INST INC COLUMBIA SC AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (9) 1661P. 1981

DONA-PAULA-BAY-GOA

0080 BHOSLE,N.B., MAVINKURVE,S. HYDROCARBON-UTILISING MICRO-ORGANISMS FROM DONA-PAULA-BAY-GOA $ NATL INST OF OCEANOGR DONA PAULA GOA INDIA MAR ENVIRON RES 4 (1) P. 53-58 1980

DONATELLI,A.A

0044 BAHLOUL,S.K., DONATELLI,A.A., BANNISTER,W.W. GELLANTS FOR CONTROL OF PETROLEUM SPILLS ON WATER $ UNIV OF LOWELL MASS IND ENG CHEM PROD RES DEV 18 (4) P. 364-367 1979

DUNKIN,P
0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DUNKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

DUNNELLY,K.C
0855 BROWN,K.W., DUNNELLY,K.C. MUTAGENIC POTENTIAL OF WATER CONCENTRATES FROM THE EFFLUENT OF A WASTE OIL STORAGE POND $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (4) P. 424-429 1982

DURNSEIF,B
0432 LEE,R.F., DURNSEIF,B., GUNSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

DOSE
0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

DOSES
0623 URDZIE,C.J., GAROFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

DOW,B.K
0875 CULLEY,J.L.B., DOW,B.K., PRESANT,B.W., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION $ AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

DOWTY,B.J
0224 DOWTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

DOYLE,P.F
0225 DOYLE,P.F. CARGO TANK REGISTRATION STATISTICS $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-80-217169 424P. 1980

DOZDOVILLE,L

0226 DOZDOVILLE,L., BERNE,S., GUNDLACH,E.R., HAYES,M.O. COASTAL MORPHOLOGY AND OIL SPILL POLLUTION THE AMOCO-CADIZ EXPERIENCE $ CTR OCEANOL BRETAGNE F-29273 BREST FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 557-571 1981

DRAG

0151 BURGER,E.D., CHURN,L.G., PERKINS,T.K. STUDIES OF DRAG REDUCTION CONDUCTED OVER A BROAD RANGE OF PIPELINE CONDITIONS WHEN FLOWING PRUDHOE-BAY CRUDE-OIL $ ARCO OIL AND GAS CO DALLAS TX JOURNAL OF RHEOLOGY 24 (5) P. 603-626 1980

0761 TAKAHASHI,T., KITAMURA,Y., NAKADA,K. SPREADING OF OIL SLICKS ON CALM WATER SURFACES EFFECT OF THE VISCOUS DRAG OF AN OIL SLICK ON ITS SPREADING RATE $ OKAYAMA UNIV JPN IND CHEM ENG 21 (2) P. 244-250 1981

DRAINAGE

0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

DRAKE,E.M

0228 DRAKE,E.M., WESSON,H.R. REVIEW OF LNG SPILL VAPOR DISPERSION AND FIRE HAZARD ESTIMATION AND CONTROL METHODS $ ARTHUR D. LITTLE INC CAMBRIDGE MASS AM GAS ASSOC OPER SECT PROC 17P. 1976

DREANO,Y

0074 BERTHOU,P., GOURMELON,Y., DREANO,Y., FRIOCOURT,M.P. APPLICATION OF GAS-CHROMATOGRAPHY ON GLASS-CAPILLARY COLUMNS TO THE ANALYSIS OF HYDROCARBON POLLUTANTS FROM THE AMOCO-CADIZ OIL-SPILL $ FAC MED BREST CNRS SERV BIOCHIM CHROMATOG LAB EQUIPE RECH BP BREST FRANCE JOURNAL OF CHROMATOGRAPHY 203 P. 279-292 1981

DREDGER

0834 ANON "COSMOS" THE NEW OIL COMBAT DREDGER $ HOLL SHIPBUILD 29 (11) P. 23-26 1981

DREV/AMOP

1044 ENERGEX ENGINEERING ARCTIC FIELD TRIALS OF THE DREV/AMOP INCENDIARY DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-17 OTTAWA ONTARIO 1981

DRIFT

0201 COX,J.M., EBBESMEYER,C.C., HELSETH,J.M., COUMES,C.A. DRIFT CARD OBSERVATIONS IN NORTHWESTERN WASHINGTON ALONG PORTIONS OF TWO PROPOSED OIL PIPELINE ROUTES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-173833 196P. 1980

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

DRIFT
0916 KITAMURA,Y., TAKAHASHI,T. WIND INDUCED DRIFT OF OIL SLICKS SPREAD IN WATER SURFACE $ OKAYAMA UNIV DEPT IND CHEM OKAYAMA JAPAN KAGAKU KOGAKU RONBUNSHU 8 (2) P. 194-196 1982

1145 ARCHER,S.J. DRIFT INTERACTIVE COMPUTER MODEL FOR PREDICTING OIL SLICK MOVEMENT $ OFFSHORE ENVIRONMENTAL SYSTEMS LTD UK 1980

DRILLING
0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

0340 HAUSER,J.N., BAIRD,R. SYSTEM TO PREDICT OFFSHORE DRILLING HAZARDS $ OCEAN OFFSHORE SURV INC BATON ROUGE LA PET ENG INT 51 (8) P. 46, 50, 52, 56 1979

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

DRILLING-MUD
0760 FAGATZ,M.E., IVEY,J.M., OGLESBY,J.L. TOXICITY OF DRILLING-MUD BIOCIDES TO DEVELOPING ESTUARINE MACROBENTHIC COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY GULF BREEZE FLA PB-81-106031 10P. 1980

DRISCOLL,W.J
0229 DRISCOLL,W.J. PIPELINE AND HAZARDOUS MATERIALS TRANSPORTATION SAFETY AND OIL SPILL REDUCTION $ US DOT WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 23-25 1979

DROPS
0685 ROZENTSVAIG,A.K., TRUNOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

DUBOW,J
0659 RAJESHWAR,K., DUBOW,J., THAPAR,R. RADIO-FREQUENCY ELECTRICAL PROPERTIES OF GREEN RIVER OIL-SHALES $ COLORADO STATE UNIV DEPT ELECT ENGN FT COLLINS CO CANADIAN JOURNAL OF EARTH SCIENCES 17 (9) P. 1315-1321 1980

DJEY,M.E

0244 ENGELHARDT,F.R., WONG,M.P., DJEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

DUFFY,J.J

0230 DUFFY,J.J., PEAKE,E., MOHTADI,M.F. OIL SPILLS ON LAND AS POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION $ UNIV CALGARY CALGARY CANADA ENVIRON INT 3 (2) P. 107-20 1980

DUMAS,L.R

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KUSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMURRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBURS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

DUNGENESS-CRAB

0618 ULLA,B.L., PEARSON,W.H., SUGARMAN,P.C., WOODRUFF,D.L., BLAYLOCK,J.W. THE EFFECTS OF PETROLEUM HYDROCARBONS ON CHEMORECEPTION AND BEHAVIOR IN THE DUNGENESS-CRAB "CANCER-MAGISTER" $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-82-116716 83P. 1981

0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., ULLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

DUNNET,G.M

0231 DUNNET,G.M. SEABIRDS AND OIL POLLUTION $ UNIV ABERDEEN DEPT ZOOL CULTERY FIELD STN ABERDEEN SCOTLAND IN: BRITISH ASSOC ADVANCEMENT SCI ENERGY IN THE BALANCE P. 51-64 1980

0879 DUNNET,G.M. OIL POLLUTION AND SEABIRD POPULATIONS $ UNIV ABERDEEN DEPT ZOOL ABERDEEN SCOTLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 413-427 1982

DURAND,B

0688 SAINTPAUL,C., MONIN,J.C., DURAND,B. FAST METHOD FOR CHARACTERIZING C-1 TO C-35 HYDROCARBONS CONTAINED IN SEDIMENTARY-ROCKS AND IN OILS $ INST FRANCAIS PETR PARIS FRANCE REVUE DE L INSTITUT FRANCAIS DU PETROLE 35 (6) P. 1065-1078 1980

DUTCH

0403 KERKHOFF,M., PRINTROP,P., KOOPS,W. POLLUTION OF THE DUTCH COAST BY OIL FROM THE "ELENI-V" JULY 1978 $ NETH INST FOR FISH INVEST IJMUIDEN SCI TOTAL ENVIRON 19 (1) P. 33-39 1981

DUTCH
0917 KUUMAN,C., DEBRUIN,D., SMIT,J.A. TRAFFIC ACCIDENTS AND SAFETY MEASURES ON DUTCH WATERWAYS $ PUBL WORKS DEPT DELTA DEPT DIV ENGN BERGEN OP ZOOM NETHERLANDS IN: PERMANENT INT ASSOC NAV CONGRESSES 11 P. 313-333 1981

DUTKA,B.J
0710 SCOTT,B.F., NAGY,E., SHERRY,J.P., DUTKA,B.J., GLOOSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER $ NAIL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

DUTTON,C.R
0483 MALCOLM,J.D., DUTTON,C.R. INTERFACIAL-TENSION AND CONTACT ANGLE OF CRUDE-OIL UNDER ICE $ MEM UNIV OF NEWFOUNDL ST. JOHN'S POAC 79 INT CONF ON PORT AND OCEAN ENG UNDER ARCTIC COND P. 771-778 1979

DUVAL,W.S
1014 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF DISPERSED OIL ON AN ESTUARINE ISOPOD $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-1 OTTAWA ONTARIO 1982

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1980

1043 DUVAL,W.S., FINK,R.P. THE SUBLETHAL EFFECTS OF WATER-SOLUBLE HYDROCARBONS ON THE PHYSIOLOGY AND BEHAVIOUR OF SELECTED MARINE FAUNA $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-16 OTTAWA ONTARIO 1981

DYE
0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

DYKES
1045 PATERSON,J.D. IN SITU PERMEABILITY TESTING FOR PETROLEUM PRODUCT CONTAINMENT DYKES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-18 OTTAWA ONTARIO 1981

EASTWOOD,D
0232 EASTWOOD,D., WEHRY,E.L. (ED) USE OF LUMINESCENCE-SPECTROSCOPY IN OIL IDENTIFICATION $ RES DEV CENT US COAST GUARD GROTON CT MOD FLUORESC SPECTROSC 4 P. 251-75 1981

EATON,J.G
1080 EATON,J.G., PARRISH,P.R., HENDRICKS,A.C. AQUATIC TOXICOLOGY $ PROCEEDINGS OF THE THIRD ANNUAL SYMPOSIUM ON AQUATIC TOXICOLOGY AMERICAN SOCIETY FOR TESTING AND MATERIALS PHILADELPHIA PA 405P. 1978

EBBESMEYER,C.C

0201 COX,J.M., EBBESMEYER,C.C., HELSETH,J.M., COUMES,C.A. DRIFT CARD OBSERVATIONS IN NORTHWESTERN WASHINGTON ALONG PORTIONS OF TWO PROPOSED OIL PIPELINE ROUTES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-173833 196P. 1980

ECKNIG,W

0682 KUSAHL,W., ECKNIG,W. GAS-CHROMATOGRAPHIC METHOD FOR DETERMINATION OF RESIDUAL OIL AFTER OIL SEPARATORS IN COMPRESSOR INSTALLATIONS $ VEB KUHLAUTOMAT BERLIN GER CHEMISCHE TECHNIK 32 (11) P 589-593 1980

ECOLOGICAL

0018 ANDRESON,R.K., MUKHATANOV,A.K., BOIKO,T.F. ECOLOGICAL CONSEQUENCES OF SOIL POLLUTION WITH OIL $ ACAD SCI USSR INST BIOL UFA SOVIET JOURNAL OF ECOLOGY 11 (6) P. 340-344 1980

0021 ANON. PROCEEDINGS OF THE CONFERENCE ON ASSESSMENT OF ECOLOGICAL IMPACTS OF OIL SPILLS 1978 $ AM INST OF BIOL SCI ARLINGTON VA PROC OF THE CONF ON ASSESS OF ECOL IMPACTS OF OIL SPILLS 936P. 1978

0057 BECCASIO,A.D., WEISSBERG,G.H., REDFIELD,A.E., FREW,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

0067 BENDER,M.E., SHEARLS,E.A., HUGGETT,R.J., MURRAY,L. ECOLOGICAL EFFECTS OF EXPERIMENTAL OIL SPILLS IN EASTERN COASTAL PLAIN ESTUARIES $ VA INST OF MAR SCI GLOUCESTER POINT ENVIRON INT 3 (2) P. 121-133 1980

0147 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME II: RECEPTORS MICROBIOLOGY ECOLOGICAL PROCESSES $ PB-81-196271 521P. 1980

0267 FLOCH,J.Y., DIOURIS,M. EFFECT OF AMOCO-CADIZ OIL SPILL ON PORTSALL (FRANCE) ALGAE: ECOLOGICAL SURVEY ON A VERY POLLUTED AREA $ INST ETUD MAR UNIV BRETAGNE OCCIDENT BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 381-91 1979

0428 LAUBIER,L. AMOCO-CADIZ OIL SPILL: AN ECOLOGICAL IMPACT STUDY $ CENT NATL POUR L'EXPLOIT DES OCEANS BRETAGNE FR AMBIO 9 (6) P. 268-276 1980

0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

0457 LINDSTEDT-SIVA,J. MINIMIZING THE ECOLOGICAL IMPACTS OF OIL SPILLS $ ATL RICHFIELD CO LOS ANGELES CALIF ENVIRON INT 3 (2) P. 185-188 1980

ECOLOGICAL
0617 OLGEIRSON,E.R., MARTIN,R.B. ECOLOGICAL INVESTIGATIONS: VEGETATION STUDIES PRELIMINARY FINDINGS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 56P. 1978

0710 SCOTT,B.F., NAGY,E., SHERRY,J.P., DUTKA,B.J., GLOUSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER $ NATL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

0747 STICKEL,L.F., DIETER,M.P. ECOLOGICAL AND PHYSIOLOGICAL/TOXICOLOGICAL EFFECTS OF PETROLEUM ON AQUATIC BIRDS A SUMMARY OF RESEARCH ACTIVITIES FY76 $ FISH AND WILDLIFE SERVICE LAUREL MD PB-80-127285 20P. 1979

0858 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 1,2 AND 3 $ PB82-167784 218P. 1981

0859 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 4 AND 5 $ PB82-167792 210P. 1981

0860 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 6 AND 7 $ PB82-167800 522P. 1981

0861 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 8 $ PB82-167818 840P. 1981

0862 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME II $ PB82-167826 175P. 1981

0863 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME III EXECUTIVE SUMMARY $ PB82-167834 36P. 1981

0911 SHARP,J.M., APPAN,S.G. THE CUMULATIVE ECOLOGICAL EFFECTS OF NORMAL OFFSHORE PETROLEUM OPERATIONS CONTRASTED WITH THOSE RESULTING FROM CONTINENTAL SHELF OIL SPILLS $ GULF UNIV RES CONSORTIUM HOUSTON TX PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 309-322 1982

ECOLOGY
0164 CARRANZAFRASER,J., SALGADO,M. PRELIMINARY RESULTS OF INVESTIGATIONS ON THE EFFECT OF THE IXTOC-I OIL SPILL ON THE ECOLOGY AND FISHERIES OF THE GULF OF MEXICO $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 33P. 1980

ECONOMIC

0390 JUHASZ,F. ECONOMIC EVALUATION OF THE ENVIRONMENTAL EFFECTS OF OIL POLLUTION A PRACTICAL LESSON USING THREE CASE HISTORIES $ OECD PARIS FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 53-58 1979

0844 BIDWELL,J.B. OIL SPILL CLEAN-UP: AN ECONOMIC AND REGULATORY MODEL $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB82-147489 30P. 1981

0919 LAMPHEAR,F.C., KESTREPO,C.E. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

0974 KESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,K.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME I $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217852 332P. 1982

0975 KESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,K.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME II EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA

1037 BROWN,W.J., DENHAM,F.R. AN ECONOMIC EVALUATION OF A MOBILE ROTARY-KILN DESIGNED FOR THE CLEANUP OF OIL CONTAMINATED BEACHES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-10 OTTAWA ONTARIO 1980

ECONOMICS

0081 BIANCHI,R.A. THE ECONOMICS OF OIL SPILLED CLEANUP $ JBF SCI CORP WILMINGTON MA MARINE TECHNOLOGY 18 (4) P. 335-341 1981

1109 LIDGREN,K., NORRBY,S. OIL AND CHEMICAL POLLUTION FROM SHIPS ECONOMICS AND CONTROL MEASURES $ THE MINISTRY OF AGRICULTURE SWEDEN 1980

ECOPHYSIOLOGICAL

0690 SAMAIN,J.F., MORAL,J., COUM,A., LECOR,J.R., DANIEL,J.Y. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON ZOOPLANKTON A NEW POSSIBILITY OF ECOPHYSIOLOGICAL SURVEY $ CTR OCEANOL BRETAGNE BP #-29273 BREST FRANCE HELGOLANDER MEERESUNTERSUCH- UNGEN 33 (1-4) P. 225-235 1980

0692 SAMAIN,J.F., MORAL,J., DANIEL,J.Y., BOUCHER,J., LEFEVRE,J. ECOPHYSIOLOGICAL EFFECTS OF OIL SPILLS FROM AMOCO-CADIZ ON PELAGIC COMMUNITIES PRELIMINARY RESULTS $ CENT OCEANOL DE BRETAGNE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 175-185 1979

ECOSYSTEM

0096 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH. D.C. PB-81-174971 167P. 1980

ECOSYSTEM

0265 FLINT,R.W., RABALAIS,N.N. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975-1977 VOLUME I ECOSYSTEM DESCRIPTION $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-181506 358P. 1980

0284 GALLAWAY,B.J. AN ECOSYSTEM ANALYSIS OF OIL AND GAS DEVELOPMENT ON THE TEXAS-LOUISIANA CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-247181 100P. 1981

0383 JOHANSSON,S., LARSSON,U., BOEHM,P. THE TSESIS OIL SPILL IMPACT ON THE PELAGIC ECOSYSTEM $ ASKO LAB INST MARINE RES UNIV STOCKHOLM SWED MAR POLLUT BULL 11 (0) P. 284-293 1980

0405 KINAKO,P.D.S. SHORT-TERM EFFECTS OF OIL POLLUTION ON SPECIES NUMBERS AND PRODUCTIVITY OF A SIMPLE TERRESTRIAL ECOSYSTEM $ UNIV PORT HARCOURT SCH BIOL SCI PORT HARCOURT ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 87-91 1981

0454 LINDEN,O., ELMGREN,R., BOEHM,P. TSESIS OIL SPILL: ITS IMPACT ON THE COASTAL ECOSYSTEM OF THE BALTIC SEA $ SWED WATER AND AIR POLLUT RES INST NYKOPING AMBIO 8 (6) P. 244-253 1979

0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MOLHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

0519 MILAN,C.S., WHELAN,T. III ACCUMULATION OF PETROLEUM HYDROCARBONS IN A SALT-MARSH ECOSYSTEM EXPOSED TO STEADY STATE OIL INPUT $ LOUISIANA STATE UNIV BATON ROUGE PB-80-128853 26P. 1979

ECOSYSTEMS

0190 CORNELL,D.W., MILLER,G.J. PETROLEUM HYDROCARBONS IN AQUATIC ECOSYSTEMS BEHAVIOR AND EFFECTS OF SUBLETHAL CONCENTRATIONS 1 $ GRIFFITH UNIV QUEENS LAND AUSTRALIA CRIT REV ENVIRON CONTROL 11 (1) P. 37-104 1981

0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN NERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSOPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

ECOSYSTEMS

0870 HYLAND,J.L., SCHNEIDER,E.D. PETROLEUM HYDROCARBONS AND THEIR EFFECTS ON MARINE ORGANISMS POPULATIONS COMMUNITIES AND ECOSYSTEMS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-80-195423 43P. 1979

0864 BURNS,K.A., SMITH,J.L. HYDROCARBONS IN VICTORIAN COASTAL ECOSYSTEMS (AUSTRALIA) - CHRONIC PETROLEUM INPUTS TO WESTERN PORT AND PORT-PHILLIP BAYS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (2) P. 129-140 1982

0870 CLARK,R.B. THE LONG-TERM EFFECT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS SOME QUESTIONS $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 185-197 1982

0871 CLARK,R.B. THE IMPACT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS A SUMMING -UP $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 433-443 1982

0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P. HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

0896 GEARING,P.J., GEARING,J.N. BEHAVIOR OF NO-2-FUEL-OIL IN THE WATER COLUMN OF CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 115-132 1982

0897 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

1088 NAGY,E., SCOTT,B.F., HART,J. THE FATE OF OIL AND DISPERSANT MIXTURES IN FRESHWATER ECOSYSTEMS $ NATIONAL WATER RESEARCH INSTITUTE ENVIRONMENT CANADA BURLINGTON ONTARIO 1980

EDDIE,A.G.F

0880 EDDIE,A.G.F. RISK ANALYSIS OF BERTHING ACCIDENTS INVOLVING LARGE SHIPS $ CONNELL EDDIE AND ASSOC MELBOURNE AUSTRALIA IN: PERMANENT INT ASSOC NAV CONGRESSES P. 1-9 1981

EDDINGER,R.T

0900 GREENLEY,W.B., BARTA,W.D., EDDINGER,R.T. LITERATURE REVIEW OF TOXICOLOGICAL PROPERTIES OF PETROLEUM AND COAL-DERIVED OIL PRODUCTS $ UNIV DELAWARE NEWARK DE FUEL PROCESSING TECHNOLOGY 6 (1) P. 9-25 1982

EDIBLE
0441 LEGLISE,M., RAGUENES,G. SURVEY ON EFFECTS OF AMOCO-CADIZ OIL SPILL ON EDIBLE CRUSTACEANS IN POLLUTED AREAS $ INST SCI TECH PECHES MARITIMES NANTES FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 775-87 1979

EDWARDS,H.,MILNE
0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

EDWARDS,R.R.C
0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

EELGRASS
0213 DENMARIJG,C., JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON AN EELGRASS COMMUNITY AT ROSCOFF (FRANCE) WITH SPECIAL REFERENCE TO THE MOBILE BENTHIC FAUNA $ CATHOLIC UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 182-191 1980

EFFECTIVENESS
0195 CORMACK,D. THE RELATIVE EFFECTIVENESS OF CURRENT TECHNIQUES FOR OIL SPILL CLEARANCE $ DEPT TRADE MARINE POLLUT CONTROL UNIT LONDON ENGLAND IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 135-147 1981

0339 HAUER,E. BIAS-BY-SELECTION: OVERESTIMATION OF THE EFFECTIVENESS OF SAFETY COUNTERMEASURES CAUSED BY THE PROCESS OF SELECTION FOR TREATMENT $ UNIV OF TORONTO ONT ACCID ANAL PREV 12 (2) P. 113-117 1980

0476 LYSYJ,I., RUSHWURTH,R., MELVOLD,R., FARLOW,J. EFFECTIVENESS OF A LARGE-SCALE BALLAST TREATMENT PROCESS $ ROCKWELL INT NEWBURY PARK CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 133-137 1979

0477 LYSYJ,I. TREATMENT EFFECTIVENESS: OIL TANKER BALLAST WATER FACILITY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101361 189P. 1981

0479 MACKAY,D., MATSON,A., NG,C., NADEAU,S. BEHAVIOR AND EFFECTIVENESS OF DISPERSANTS AT SEA AND AT SHORELINES $ UNIV OF TORONTO ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 447-452 1979

0584 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. SAFETY EFFECTIVENESS EVALUATION FEDERAL AND STATE ENFORCEMENT EFFORTS IN HAZARDOUS MATERIALS TRANSPORTATION BY TRUCK $ PB-81-130101 113P. 1981

EFFECTIVENESS

0667 REWICK,R.T., GATES,J., SMITH,J.H. SIMPLE TEST OF DISPERSANT EFFECTIVENESS BASED ON INTERFACIAL-TENSION MEASUREMENTS $ STANFORD RES INST INT MENLO PARK CALIF FUEL 59 (4) P. 263-265 1980

1081 MACKAY,D., SZETO,F. EFFECTIVENESS OF OIL SPILL DISPERSANTS - DEVELOPMENT OF A LABORATORY METHOD AND RESULTS FOR SELECTED COMMERCIAL PRODUCTS $ INSTITUTE FOR ENVIRONMENTAL STUDIES TORONTO CANADA 1981

1092 ASLIN,J., HUSSAIN,K., MACKAY,D. EFFECTIVENESS OF AERIALLY APPLIED DISPERSANTS $ DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED CHEMISTRY TORONTO CANADA 1981

EFFICIENCY

0016 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SUKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

0344 HELLMANN,H., MUELLER,D. TESTING THE TECHNICAL EFFICIENCY AND THE TOXICITY OF CHEMICAL AGENTS FOR DISPERSION OF CRUDE-OIL ON WATER SURFACES $ BUNDESANST GEWAESSERKD.KOBLENZ FED REP GER DISCH GEWAESSERKD MITT 25 (2) P. 56-9 1981

EFFLUENT

0855 BROWN,K.W., DUNNELLY,K.C. MUTAGENIC POTENTIAL OF WATER CONCENTRATES FROM THE EFFLUENT OF A WASTE OIL STORAGE POND $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (4) P. 424-429 1982

EFFLUENTS

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MULHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 365P. 1980

EGGS

0010 ALBERS,P.H. TRANSFER OF CRUDE-OIL FROM CONTAMINATED WATER TO BIRD EGGS $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD ENVIRONMENTAL RESEARCH 22 (2) P. 307-314 1980

Volume

2

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Format

This bibliography contains over 1,500 references which have been compiled using a computer system. Authors and keywords are arranged alphabetically throughout this bibliography. Readers are advised to check for the particular keyword of interest, plus its plural and other forms of the word, eg., its verb, adjective, etc. Compound names such as place names or those of biological species, will be indexed in this bibliography as separate words.

EGGS

0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

EHRENSPECK,H

0283 EHRENSPECK,H., OSTERYOUNG,K., BONVOULOIR,D. OIL POLLUTION ABSTRACTS VOLUME 6 NUMBER 4 (OCTOBER 1979-DECEMBER 1979) $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-191067 217P. 1980

0234 EHRENSPECK,H., MATUCK,C., JUDSON,K. OIL POLLUTION ABSTRACTS VOLUME 7 NUMBER 2 (JULY 1980-NOVEMBER 1980) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-141582 233P. 1981

0613 UFFEN,H.W., EHRENSPECK,H., MATUCK,C., HANNAN,D., STEFANI,R. OIL POLLUTION ABSTRACTS VOLUME 7 NUMBER 1 (JANUARY 1980-JUNE 1980) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-140493 355P. 1981

EI-361-A

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND EI-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

EIMHJELLEN,K

1025 EIMHJELLEN,K., SOMMER,T. MICROBIOLOGY 2 BIODEGRADATION OF OIL $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-6 OTTAWA ONTARIO 1981

EKOFISK

0853 BONSDORFF,E., NELSON,W.G. FATE AND EFFECTS OF EKOFISK CRUDE-OIL IN THE LITTORAL OF A NORWEGIAN FJORD $ INST MAR BIOL UNIV BERGEN BLOMSTERDALEN NORWAY SARSIA 66 (3) P. 231-40 1981

ELASTOHYDRODYNAMIC

0816 WILSON,A.R. AN EXPERIMENTAL THERMAL CORRECTION FOR PREDICTED OIL FILM THICKNESS IN ELASTOHYDRODYNAMIC CONTACTS $ SHELL RES LTD THORNTON RES CTR CHESTER CH1 CHESHIRE ENGL IN: DOWSON,D., TAYLOR,C.M., GODET,M., BERTHE,D. THERMAL EFFECTS IN TRIBOLOGY P. 179-190 1980

ELDER,H.Y

0609 NUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

ELECTRICAL

0022 ANON. OIL SPILLS FROM SUBSTATION ELECTRICAL EQUIPMENT $ IEEE TRANS POWER APPAR SYST PAS-99 (3) P. 925-927 1980

ELECTRICAL
0371 IEEE OIL SPILLS FROM SUBSTATION ELECTRICAL EQUIPMENT $ IEEE TRANSACTIONS ON POWER APPARATUS AND SYSTEMS 99 (3) P. 925-927 1980

0659 RAJESHWAR,K., DUBOW,J., THAPAR,R. RADIO-FREQUENCY ELECTRICAL PROPERTIES OF GREEN RIVER OIL-SHALES $ COLORADO STATE UNIV DEPT ELECT ENGN FT COLLINS CO CANADIAN JOURNAL OF EARTH SCIENCES 17 (9) P. 1315-1321 1980

ELECTROCHEMICAL
0174 CHURSHUKOV,E.S., MAIKO,L.P., ZAKHAROVA,V.N., KUZNETSOV,V.A. EVALUATION OF WATER-DISPLACING ABILITY OF OILS BY ELECTROCHEMICAL METHOD $ CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (9-10) P. 766-767 1979

ELECTROLYTES
0686 RUCKENSTEIN,E., KRISHNAN,R. EFFECT OF ELECTROLYTES AND MIXTURES OF SURFACTANTS ON THE OIL-WATER INTERFACIAL-TENSION AND THEIR ROLE IN FORMATION OF MICRO-EMULSIONS $ SUNY BUFFALO FAC ENGN AND APPL SCI BUFFALO NY JOURNAL OF COLLOID AND INTERFACE SCIENCE 76 (1) P. 201-211 1980

ELECTROLYTIC
0288 GEALER,R.L., GOLUBOV,A., WEINTRAUB,M.H. ELECTROLYTIC TREATMENT OF OILY WASTEWATER FROM MANUFACTURING AND MACHINING PLANTS $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-225113 59P. 1980

ELENI-V
0086 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 1 OIL IN WATERS AND SEDIMENTS $ MINIST AGRIC FISH FOOD FISH LAB REMEBRANCE AVE BURNHAM-ON-CROUCH ESSEX ENGL UK MAR POLLUT BULL 11 (7) P. 199-204 1980

0087 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 2 BIOLOGICAL EFFECTS $ MINISTRY AGRIC FISHERIES FOOD FISHERIES LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX UK MAR POLLUT BULL 11 (8) P. 217-220 1980

0088 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL RETURN TO NORMAL CONDITIONS $ MINISTRY OF AGRIC FISHERIES AND FOOD FISHERIES LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX UK MAR POLLUT BULL 12 (4) P. 126-130 1981

0403 KERKHOFF,M., FRINTROP,P., KOOPS,W. POLLUTION OF THE DUTCH COAST BY OIL FROM THE "ELENI-V" JULY 1978 $ NETH INST FOR FISH INVEST IJMUIDEN SCI TOTAL ENVIRON 19 (1) P. 33-39 1981

ELLENTON,J.A
0881 ELLENTON,J.A., HALLETT,D.J. MUTAGENICITY AND CHEMICAL ANALYSIS OF ALIPHATIC AND AROMATIC FRACTIONS OF PRUDHOE-BAY CRUDE-OIL AND FUEL-OIL-NO-2 $ DEPT ENVIRONM DIV WILDLIFE TOXICOL NATL WILDLIFE RES CTR OTTAWA CANADA JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 959-972 1981

ELLISON,R.L
0099 BOESCH,D.F., HARTZBAND,D.J., ELLISON,R.L. MIDDLE ATLANTIC OUTER CONTINENTAL SHELF ENVIRONMENTAL STUDIES VOLUME IIB CHEMICAL AND BIOLOGICAL BENCHMARK STUDIES $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-174765 562P. 1979

ELMGREN,R
0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN MERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

0454 LINDEN,O., ELMGREN,R., BOEHM,P. TSESIS OIL SPILL: ITS IMPACT ON THE COASTAL ECOSYSTEM OF THE BALTIC SEA $ SWED WATER AND AIR POLLUT RES INST NYKOPING AMBIO 8 (6) P. 244-253 1979

0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P. HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

1105 KINEMAN,J., ELMGREN,R., HANSSON,S. THE TSESIS OIL SPILL $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLORADO 1980

ELSKUS,A.A
0849 BOEHM,P.D., BARAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

EM-DASH
0431 LEBACK,W.G. CARRIAGE OF LNG "EM-DASH" THE STATE OF THE ART $ EL PASO LNG CO TEX PROC OF THE TANKER CONF TARPON SPRINGS FLA P. 174-201 1978

0603 NOMURA,A., MORITA,Y., KOGURE,Y. NITROGEN COMPOUNDS IN PETROLEUM "EM-DASH" 4 DISTRIBUTION PROFILES OF NITROGEN COMPOUNDS IN PETROLEUM BY SOLID-LIQUID CHROMATOGRAPHY $ NATL CHEM LAB FOR IND TOKYO JPN BULL CHEM SOC JPN 52 (3) P. 817-820 1979

EMBRYOS
0877 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 2 THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 287-294 1981

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 1 HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

EMERGENCE
0854 BROWN,K.W., BRAHAND,H., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 257-261 1982

EMERGENCY
0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KROGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

0163 CARUN,D.D. EMERGENCY DISPOSAL OF OIL SPILL AND WASTES IN NORTHERN AND CENTRAL CALIFORNIA $ US COAST GUARD SAN FRANCISCO CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SUMP P. 62-75 1980

0245 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. EMERGENCY SPILLS RESEARCH STRATEGY 1980-1984 $ PB-81-206229 25P. 1980

0375 INMAN,D.W., HENRY,J., MELVILLE,P. SIMULATION AND QUEUING MODELS TO ASSIST PLANNING OF ACCIDENT AND EMERGENCY SERVICES $ NE THAMES REGIONAL HLTH AUTHORITY CAVELL ST LONDON ENGL IN: GREMY,F., DEGOULET,P., BARBER,B., SALAMON,R. MEDICAL INFORMATICS EUROPE 81 II P. 266-274 1981

EMISSION
0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

EMISSIONS
0654 PROVOST,L.P., WETHEROLD,R.G., HARRIS,G.E., HOOPER,M.W., PHILLIPS,W.R. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 4 APPENDICES C, D AND E $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-103830 529P. 1980

0716 SHEFNER,A.M. RESPIRATORY CARCINOGENICITY OF DIESEL-FUEL EMISSIONS $ III RESEARCH INST CHICAGO IL PB-81-230955 35P. 1981

0808 WETHERULD,R.G., ROSEBROOK,D.D. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 1 TECHNICAL REPORT $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-80-225253 482P. 1980

EMULSIFIERS
0309 GUSWANI,A.K. STABILITY OF OIL WATER EMULSIONS USING BINARY-MIXTURES OF PROTEIN AND SURFACTANT AS EMULSIFIERS $ KISHORI RAMAN COLL DEPT CHEM MATHURA INDIA ANNALI DI CHIMICA 69 (7-8) P. 389-397 1979

EMULSIFYING

0963 PAPIRER,E., BOURGEOIS,C., SIFFERT,B., BALARD,H. CHEMICAL NATURE AND WATER OIL EMULSIFYING PROPERTIES OF ASPHALTENES $ CTR RECH PHYS CHIM SURFACES SOLIDES MULHOUSE FRANCE FUEL 61 (6) P. 732-734 1982

EMULSIONS

0078 BESSLER,D.U. TREATING EMULSIONS FROM ENHANCED OIL-RECOVERY PROJECTS $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 179 14P. 1980

0101 BULSTER,R.N., LITTLE,R.C. CHEMICAL DEMULSIFICATION OF SEAWATER IN RESIDUAL OIL EMULSIONS $ US NAV RES LAB WASHINGTON, D.C. ENVIRON INT 3 (2) P. 163-170 1980

0108 BRIDIE,A.L., WANDERS,TH.H., ZEGVELD,W., VAN DER HEIJDE,H.B. FORMATION PREVENTION AND BREAKING OF SEA WATER IN CRUDE-OIL EMULSIONS "CHOCOLATE-MOUSSES" $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

0214 DEPRAETERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

0220 DIDENKO,V.S. RHEOLOGICAL PROPERTIES OF WATER-OIL EMULSIONS TRANSPORTED IN PIPELINES $ NEFTYANOE KHOZYAISTVO (12) P. 53-56 1980

0309 GOSWANI,A.K. STABILITY OF OIL WATER EMULSIONS USING BINARY-MIXTURES OF PROTEIN AND SURFACTANT AS EMULSIFIERS $ KISHORI RAMAN COLL DEPT CHEM MATHURA INDIA ANNALI DI CHIMICA 69 (7-8) P. 389-397 1979

0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

0362 HOLMES,P.D. PRACTICAL EXPERIENCES OF THE HANDLING AND DISPOSAL OF WATER-IN-OIL EMULSIONS $ BR PET CO LONDON ENGL ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 98-108 1980

0418 KUZNETSOV,A., GRITSKOV,V.S., KHOMYAKOV,V.M., KUDINOV,Y. DISPERSION SYSTEM FOR PREPARING OIL-WATER EMULSIONS $ METALLURGIST 23 (7-8) P. 554-556 1979

0466 LITTLE,R.C. CHEMICAL DEMULSIFICATION OF AGED CRUDE-OIL EMULSIONS $ NAV RES LAB WASHINGTON, D.C. ENVIRON SCI TECHNOL 15 (10) P. 1184-1190 1981

0467 LITTLE,R.C. CHEMICAL DEMULSIFICATION OF TANKER CRUDE EMULSIONS $ NAVAL RESEARCH LAB WASHINGTON, D.C. AD-A083-389/7 57P. 1980

EMULSIONS

0685 KUZENTSVAIG,A.K., TRONOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

0698 SCHIEGG,H.O. FIELD INFILTRATION AS A METHOD FOR THE DISPOSAL OF OIL-IN-WATER EMULSIONS FROM THE RESTORATION OF OIL POLLUTED AQUIFERS $ LAB HYDRAULICS HYDROL GLACIOL SWISS FED INST TECHNOL ZURICH SWITZ WATER RES 14 (8) P. 1031-16 1980

0731 SMIRNOVA,A.V., PLOTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

0762 TALISMAN,L.V., SEMENOVA,I.N. PROBLEM OF THE INTRODUCTION OF WATER-GASOLINE EMULSIONS $ VSES NAUCHNO-ISSLED INST NEFT PROM MOSCOW USSR KHIM TEKHNOL TOPL MASEL (8) P. 27-30 1980

0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

0866 CANEVARI,G.P. THE FORMULATION OF AN EFFECTIVE DEMULSIFIER FOR OIL SPILL EMULSIONS $ EXXON RES ENG CO FLURHAM PARK NJ MAR POLLUT BULL 13 (2) P. 49-54 1982

1032 EWARDUS,E.M. A STUDY TO EVALUATE THE COMBUSTIBILITY AND OTHER PHYSICAL AND CHEMICAL PROPERTIES OF AGED OILS AND EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-5 OTTAWA ONTARIO 1980

1039 HOSSAIN,K., MACKAY,D. A STUDY OF THE COMBUSTIBILITY OF WEATHERED CRUDE-OILS AND WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-12 OTTAWA ONTARIO 1980

1060 MACKAY,D., HOSSAIN,K. STUDIES OF WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-34 OTTAWA ONTARIO 1982

ENCAPSULATED

0528 MURAKAMI,A., OMI,S. TREATMENT OF OIL SPILLS BY MICROORGANISMS AND ENCAPSULATED NUTRIENTS $ BULL ENG TOKYO UNIV JAPAN KANKYO KAGAKU TOKUBETSU KENKYU KENKYU HOKOKUSHO NO (889-R34) P. 141-4 1981

ENCYCLOPEDIA

1108 MCCASLIN,J.C. INTERNATIONAL PETROLEUM ENCYCLOPEDIA $ PENWELL PUBLISHING CO TULSA OKLAHOMA 1980

ENERGETICS

0384 JOHNS,D.M., PECHENIK,J.A. INFLUENCE OF THE WATER-ACCOMMODATED FRACTION OF NO.-2-FUEL-OIL ON ENERGETICS OF *CANCER-IRRORATUS* LARVAE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT, RI PB-81-185720 13P. 1981

ENERGY

0025 ANON. ENERGY IN THE BALANCE SOME PAPERS FROM BA79: PAPERS GIVEN AT THE ANNUAL MEETING OF THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE 1979 $ BR ASSOC FOR THE ADV OF SCI ENERGY IN THE BALANCE SOME PAP FROM BA79 <34P. 1979

0235 DEPARTMENT OF ENERGY WASHINGTON, D.C. SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN $ BENDIX CORP KANSAS CITY 57P. 1981

0236 DEPARTMENT OF ENERGY, WASHINGTON, D.C. LIQUEFIED GASEOUS FUELS SAFETY AND ENVIRONMENTAL CONTROL ASSESSMENT PROGRAM: SECOND STATUS REPORT $ 229P. 1980

0237 DEPARTMENT OF ENERGY WASHINGTON, D.C. COMBUSTION: AN OIL SPILL MITIGATION TOOL $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 554P. 1979

0238 DEPARTMENT OF ENERGY WASHINGTON, D.C. SYNTHETIC FUELS AND THE ENVIRONMENT: AN ENVIRONMENTAL AND REGULATORY IMPACTS ANALYSIS $ 652P. 1980

0239 DEPARTMENT OF ENERGY WASHINGTON, D.C. REFINERY SITING WORKBOOK: APPENDICES C TO D $ MITTELHAUSER CORP EL TORO CA 642P. 1980

0240 DEPARTMENT OF ENERGY WASHINGTON, D.C. LIQUIFIED-NATURAL-GAS WIND-TUNNEL SIMULATION AND INSTRUMENTATION ASSESSMENTS $ 366P. 1978

0241 DEPARTMENT OF ENERGY WASHINGTON, D.C. APPROACH TO LIQUEFIED-NATURAL-GAS (LNG) SAFETY AND ENVIRONMENTAL CONTROL RESEARCH $ 464P. 1978

0242 DEPARTMENT OF ENERGY WASHINGTON, D.C. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL REPORT $ 1042P. 1980

0243 DEPARTMENT OF ENERGY WASHINGTON, D.C. ENVIRONMENTAL TRENDS TO THE YEAR 2000 $ 23P. 1981

0277 FREY,J.H. ENVIRONMENTAL IMPACTS OF OIL-SHALE WASTE DISPOSAL JANUARY 1976-JUNE 1980 (CITATIONS FROM THE ENERGY DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-852527 82P. 1980

0341 HAYES,M.O., GUNDLACH,E.R., GETTER,C.D. SENSITIVITY RANKING OF ENERGY PORT SHORELINES $ UNIV OF SC COLUMBIA PORTS '80 SPEC CONF NORFOLK VA P. 697-709 1980

0381 JAPAN ATOMIC ENERGY RESEARCH INST TOKYO SAFETY ANALYSIS OF FUEL CIRCULATING SYSTEM FOR TOKAMAK EXPERIMENTAL FUSION REACTOR $ 161P. 1978

ENERGY

0409 KUBLANSKI,J.N. OIL SPILL REMOVAL IN THE MARINE ENVIRONMENT UTILIZING ACOUSTIC ENERGY $ OCEAN ECOL LTD VANCOUVER BC CANADA JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (3) P. 92-96 1981

0410 KUBLANSKI,J.N. OIL SPILL REMOVAL IN THE MARINE ENVIRONMENT UTILIZING ACOUSTIC ENERGY $ JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 19 (1) 36P. 1980

0712 SERRAJIAN,N.M. ENVIRONMENTAL DATA ENERGY TECHNOLOGY CHARACTERIZATIONS: PETROLEUM $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 81P. 1980

0939 NATIONAL RESEARCH COUNCIL WASHINGTON,D.C. ARCTIC TERRESTRIAL ENVIRONMENTAL RESEARCH PROGRAMS OF THE OFFICE OF ENERGY RESEARCH DEPARTMENT OF ENERGY: EVALUATION AND RECOMMENDATIONS $ PB82-197088 80P. 1982

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

ENFORCEMENT

0584 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. SAFETY EFFECTIVENESS EVALUATION FEDERAL AND STATE ENFORCEMENT EFFORTS IN HAZARDOUS MATERIALS TRANSPORTATION BY TRUCK $ PB-81-180101 113P. 1981

ENGEL,P

0427 LAU,Y.L., ENGEL,P. CONTROL OF OIL SLICKS IN FLOWING WATER USING AIR BUBBLE BARRIERS $ NATL WATER RES INST DIV HYDRAUL RES BURLINGTON ONTARIO CANADA CANADIAN JOURNAL OF CIVIL ENGINEERING 7 (2) P. 397-405 1980

ENGELHARD,F.R

0822 WONG,C.K., ENGELHARD,F.R., STRICKLER,J.R. SURVIVAL AND FECUNDITY OF DAPHNIA-PULEX ON EXPOSURE TO PARTICULATE OIL $ UNIV OF OTTAWA ONT CAN BULL ENVIRON CONTAM TOXICOL 26 (5) P. 606-612 1981

ENGELHARDT,F.R

0244 ENGELHARDT,F.R., WONG,M.P., DUEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

ENGLAND

0180 BRITISH CARBONIZATION RESEARCH ASSOCIATION CHESTERFIELD ENGLAND PROCEEDINGS OF THE SYMPOSIUM ON TAR ACID-EXTRACTION 11 APRIL 1978 $ 59P. 1979

ENHANCE
0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSOPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

ENHANCED
0059 BECK,R., ABOBA,B., MILLER,D., KAKLINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

0078 BESSLER,D.U. TREATING EMULSIONS FROM ENHANCED OIL-RECOVERY PROJECTS $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 179 14P. 1980

0724 SILVESTRO,E., CROCKER,M. TOXICITY OF CHEMICAL COMPOUNDS USED FOR ENHANCED OIL RECOVERY $ ENERGY RESOUR CO INC CAMBRIDGE MA 198P. 1980

0818 WILSON,T.D. ENVIRONMENTAL REGULATIONS HANDBOOK FOR ENHANCED OIL RECOVERY FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 210P. 1980

ENHANCEMENT
0481 MAGOTT,R.J., BASS,R.L. III, MORROW,T.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

ENHYDRA-LUTRIS
0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

ENTRAPMENT
0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PUAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

ENVIRONMENT'S
0202 CRANE,G.D. DEVELOPMENT OF THE DEPARTMENT OF THE ENVIRONMENT'S POLLUTION PAPER NO 8 (ON ACCIDENTAL OIL POLLUTION OF THE SEA) $ DEP OF THE ENVIRON AND TRANSP MAR ENVIRON AND OIL FACIL PROC OF A CONF LONDON ENGL P. 49-63 1978

ENVIRONMENTAL
0020 ANON. ENVIRONMENTAL IMPACT OF REFINERY WASTEWATER $ DIE AUSWIRKUNGEN VON RAFFINERIEABWAESSERN AUF DIE UMWELT ERDOEL KOHLE ERDGAS PETROCHEM VER BRENNST CHEM 33 (5) P. 214-219 1980

ENVIRONMENTAL

0073 BERRYHILL,H.L. JR., SHIDELER,G.L., HOLMES,C.W., BARNES,S.S., HILL,G.W. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975: AN ATLAS AND INTEGRATED SUMMARY $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-217763 325P. 1977

0099 BUESCH,D.F., HARTZBAND,D.J., ELLISON,R.L. MIDDLE ATLANTIC OUTER CONTINENTAL SHELF ENVIRONMENTAL STUDIES VOLUME IIB CHEMICAL AND BIOLOGICAL BENCHMARK STUDIES $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-174765 562P. 1979

0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

0122 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY EXECUTIVE SUMMARY 1977 $ PB-82-106692 94P. 1978

0123 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME I CHAPTERS 1-10 $ PB-81-106718 660P. 1979

0124 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME II CHAPTERS 11-21 $ PB-81-106726 604P. 1979

0125 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 9 BIOLOGICAL STUDIES $ PB-82-117474 675P. 1981

0126 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 10 BIOLOGICAL STUDIES $ PB-82-124975 790P. 1981

0127 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 11 BIOLOGICAL STUDIES $ PB-82-124983 675P. 1981

0128 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975 BIOLOGY AND CHEMISTRY $ PB-81-137689 625P. 1976

0129 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166093 577P. 1979

0130 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 2 REPORT 18-24 $ PB-80-166101 720P. 1979

ENVIRONMENTAL

0131 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166127 795P. 1979

0132 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 2 REPORTS 18-24 $ PB-80-166135 647P. 1979

0133 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME 1 BOOK 3 CHAPTERS XV-XX $ PB-80-177488 990P. 1977

0134 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME II MASTER BIBLIOGRAPHY INDEX ACKNOWLEDGEMENTS $ PB-80-177496 516P. 1977

0135 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME III APPENDIX A, B.AND C $ PB-80-177504 511P. 1977

0136 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF NORTHEAST GULF OF ALASKA INTERIM SYNTHESIS REPORT $ PB-81-177883 298P. 1980

0137 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-186810 774P. 1979

0138 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME III RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186836 643P. 1979

0139 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF THE YEAR ENDING MARCH 1979 VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186844 669P. 1979

0140 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME V RECEPTORS MICROBIOLOGY CONTAMINANT BASELINES $ PB-80-186851 703P. 1979

0141 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VII TRANSPORT $ PB-80-186877 569P. 1979

ENVIRONMENTAL

0142 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VIII TRANSPORT $ PB-80-186885 592P. 1979

0143 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME IX HAZARDS $ PB-80-186893 686P. 1979

0144 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME X HAZARDS DATA MANAGEMENT $ PB-80-186901 522P. 1979

0145 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF EXECUTIVE SUMMARY APRIL 1978-MARCH 1979 $ PB-80-186919 112P. 1979

0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

0147 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME II: RECEPTORS MICROBIOLOGY ECOLOGICAL PROCESSES $ PB-81-196271 521P. 1980

0148 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME III: EFFECTS AND CONTAMINANT BASELINES $ PB-81-196289 359P. 1980

0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0209 DAVIS,N.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

0236 DEPARTMENT OF ENERGY, WASHINGTON, D.C. LIQUEFIED GASEOUS FUELS SAFETY AND ENVIRONMENTAL CONTROL ASSESSMENT PROGRAM: SECOND STATUS REPORT $ 229P. 1980

ENVIRONMENTAL

0238 DEPARTMENT OF ENERGY WASHINGTON, D.C. SYNTHETIC FUELS AND THE ENVIRONMENT: AN ENVIRONMENTAL AND REGULATORY IMPACTS ANALYSIS $ 652P. 1980

0241 DEPARTMENT OF ENERGY WASHINGTON, D.C. APPROACH TO LIQUEFIED-NATURAL-GAS (LNG) SAFETY AND ENVIRONMENTAL CONTROL RESEARCH $ 464P. 1978

0243 DEPARTMENT OF ENERGY WASHINGTON, D.C. ENVIRONMENTAL TRENDS TO THE YEAR 2000 $ 23P. 1981

0245 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. EMERGENCY SPILLS RESEARCH STRATEGY 1980-1984 $ PB-81-206229 25P. 1980

0246 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. ENVIRONMENTAL IMPACT GUIDELINES FOR NEW SOURCE PETROLEUM REFINERIES $ PB-82-123514 126P. 1981

0247 ENVIRONMENTAL PROTECTION AGENCY SEATTLE WA ALASKA PETROCHEMICAL COMPANY REFINERY AND PETROCHEMICAL FACILITY VALDEZ ALASKA $ PB-81-117038 349P. 1980

0248 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. A SMALL OIL SPILL AT WEST FALMOUTH $ PB-80-170111 33P. 1979

0265 FLINT,R.W., RABALAIS,N.N. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975-1977 VOLUME I ECOSYSTEM DESCRIPTION $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-181506 358P. 1980

0266 FLINT,R.W., RABALAIS,N.N. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975-1977 VOLUME III STUDY AREA FINAL REPORTS $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-181522 650P. 1980

0277 FREY,J.M. ENVIRONMENTAL IMPACTS OF OIL-SHALE WASTE DISPOSAL JANUARY 1976-JUNE 1980 (CITATIONS FROM THE ENERGY DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-852527 82P. 1980

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0294 GEFFEN,C.A. POTENTIAL SAFETY AND ENVIRONMENTAL CONCERNS IN PETROLEUM TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1979

0310 GOUILLOUD,M.R. OIL SLICKS ENVIRONMENTAL COMPENSATION $ UNIV PARIS FRANCE IN= ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 67-76 1981

ENVIRONMENTAL

0381 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

0368 HUNDEMANN,A.S. REMOTE-SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT 1964-JULY 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-813140 192P. 1980

0378 JACKSON,W.B. ENVIRONMENTAL ASSESSMENT OF AN ACTIVE OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1977-1978 VOLUME II DATA MANAGEMENT AND BIOLOGICAL INVESTIGATIONS $ NATIONAL MARINE FISHERIES SERVICE GALVESTON TX PB-80-165970 799P. 1979

0390 JUHASZ,F. ECONOMIC EVALUATION OF THE ENVIRONMENTAL EFFECTS OF OIL POLLUTION A PRACTICAL LESSON USING THREE CASE HISTORIES $ OECD PARIS FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 53-58 1979

0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

0429 LAUGHLIN,R.B. JR., NG,J., GUARD,H.E. HORMESIS: A RESPONSE TO LOW ENVIRONMENTAL CONCENTRATIONS OF PETROLEUM HYDROCARBONS $ NAVAL BIOSCIENCES LAB OAKLAND CA AD-A097-079/8 4P. 1980

0461 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX D ADVERSE ENVIRONMENTAL EFFECTS $ AD-A091-406/9 96P. 1973

0463 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY ENVIRONMENTAL ASSESSMENT $ AD-A091-403/6 94P. 1973

0516 MIDDLEDITCH,B.S. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME V HYDROCARBONS BIOCIDES AND SULFUR $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-178451 106P. 1980

0517 MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY EPILOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 421-432 1981

ENVIRONMENTAL

0518 MIDDLEDITCH,B.S., GALLAWAY,B.J. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY PROLOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 1-14 1981

0541 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-130008 781P. 1978

0542 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME II RECEPTORS BIRDS $ PB-80-130016 964P. 1978

0543 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME III RECEPTORS BIRDS $ PB-80-130024 912P. 1978

0544 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130032 734P. 1978

0545 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME V RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130040 377P. 1978

0546 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VI RECEPTORS MICROBIOLOGY $ PB-80-130057 502P. 1978

0547 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VII EFFECTS $ PB-80-130065 761P. 1978

0548 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VIII CONTAINMENT BASELINES $ PB-80-130073 628P. 1978

0549 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME X TRANSPORT $ PB-80-130099 933P. 1978

0550 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XI HAZARDS $ PB-80-130107 693P. 1978

0551 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XII HAZARDS $ PB-80-130115 626P. 1978

0612 OBERHOLTZER,G.R., ACUFF,J.T. NATIONAL SPILL CONTROL SCHOOL A PILOT PROGRAM IN ENVIRONMENTAL TRAINING FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 52P. 1980

ENVIRONMENTAL

0704 SCIENCE APPLICATIONS INC BOULDER CO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF LOWER COOK INLET INTERIM SYNTHESIS REPORT $ PB-80-130735 252P. 1979

0709 SCIENCE APPLICATIONS INC LA-JOLLA CA SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME III METHODOLOGY REPORTS $ PB-80-166119 237P. 1979

0712 SERRAJIAN,N.M. ENVIRONMENTAL DATA ENERGY TECHNOLOGY CHARACTERIZATIONS: PETROLEUM $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 81P. 1980

0719 SHINN,J.H. ENVIRONMENTAL ISSUES OF THE PROPOSED LNG SPILL TESTS AT FRENCHMAN FLATS: LNG WORKING GROUP REPORT NO. 1 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 16P. 1981

0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192429 63P. 1980

0727 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME III BACTERIOLOGY OF A GULF OF MEXICO GAS AND OIL FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192189 54P. 1980

0729 SMALL,M.J., LAMBERT,W.P. A STOCHASTIC PROCEDURE FOR ALLOCATION OF FUNDS FOR TOXICOLOGICAL AND ENVIRONMENTAL RESEARCH ON THE BASIS OF HAZARD ASSESSMENT $ ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB FORT DETRICK MD AD-A091-688/2 8P. 1979

0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

0734 SMITH,G.W., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-163743 365P. 1981

0764 TAYLOR,A. STRATEGIC PETROLEUM RESERVE WEST HACKBERRY OIL STORAGE CAVERN FIRE AND SPILL OF SEPTEMBER 21 1978: AN ENVIRONMENTAL ASSESSMENT FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 680P. 1980

0769 TILLERY,J.B. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME VIII TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192452 127P. 1980

ENVIRONMENTAL

0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

0786 VANDERMEULEN,J.H., LONG,B.F.N., AHERN,T.P. BIOAVAILABILITY OF STRANDED AMOCO-CADIZ OIL AS A FUNCTION OF ENVIRONMENTAL SELF-CLEANING: APRIL 1978-JANUARY 1979 $ MAR ECOL LAB BEDFORD INST OCEANOGR DARTMOUTH NS AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 585-97 1979

0818 WILSON,T.D. ENVIRONMENTAL REGULATIONS HANDBOOK FOR ENHANCED OIL RECOVERY FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 210P. 1980

0840 BEDINGER,C.A., NOLTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-I BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV S HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX I CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

0904 HAMMOND,K.A.G. ENVIRONMENTAL ASPECTS OF POTENTIAL PETROLEUM EXPLORATION AND EXPLOITATION IN ANTARCTICA: FORECASTING AND EVALUATING RISKS $ MARINE MAMMAL COMMISSION WASHINGTON,D.C. PB82-169772 34P. 1982

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 537P. 1979

0920 LANFEAR,K.J., AMSTUTZ,D.E. ENVIRONMENTAL STUDIES FOR OILSPILL TRAJECTORY MODELING IN THE SOUTH-EASTERN U.S. OUTER CONTINENTAL SHELF LEASING AREA $ US GEOL SURV USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 487-495 1981

0927 MALINS,D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 5 BIOLOGICAL STUDIES: ASSESSMENT OF AVAILABLE LITERATURE ON EFFECTS OF OIL POLLUTION ON BIOTA IN ARCTIC AND SUBARCTIC WATERS $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-171794 716P. 1979

ENVIRONMENTAL
0939 NATIONAL RESEARCH COUNCIL WASHINGTON,D.C. ARCTIC TERRESTRIAL ENVIRONMENTAL RESEARCH PROGRAMS OF THE OFFICE OF ENERGY RESEARCH DEPARTMENT OF ENERGY: EVALUATION AND RECOMMENDATIONS $ PB82-197088 80P. 1982

0940 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA REMOTE-SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT 1964-NOVEMBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-802752 231P. 1981

0955 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PLATFORMS: TECHNOLOGY REGULATIONS AND ENVIRONMENTAL EFFECTS 1977-JUNE 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-868381 173P. 1982

1013 ENVIRONMENTAL PROTECTION SERVICE AN EVALUATION OF OIL SKIMMERS AND PUMPS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-4 OTTAWA ONTARIO 1981

1020 GREEN,D.R. CHEMISTRY 1 FIELD SAMPLING AND ENVIRONMENTAL CHEMISTRY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-1 OTTAWA ONTARIO 1981

1036 KARDOS,G. STUDY OF APPLICATION AND SUITABILITY OF HAZARD/RISK ANALYSIS METHODOLOGY FOR ENVIRONMENTAL CONSIDERATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-9 OTTAWA ONTARIO 1980

1064 INTERA ENVIRONMENTAL CONSULTANTS LIMITED REMOTE-SENSING ANALYSIS OF THE OIL SPILL DISPERSANT SEA TRIAL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-40 OTTAWA ONTARIO 1982

1073 ENVIRONMENTAL PROTECTION AGENCY PROJECT INFORMATION SHEETS FOR OIL SPILLS RESEARCH $ EDISON NJ 1980

1093 ANONYMOUS APPLICATION AND ENVIRONMENTAL EFFECTS OF OIL SPILL CHEMICALS $ INTERNATIONAL PETROLEUM INDUSTRY ENVIRONMENTAL CONSERVATION ASSOCIATION LONDON 1980

1103 SMITH,G.F., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1981

1132 ANONYMOUS BEAUFORT-SEA-MACKENZIE-DELTA ENVIRONMENTAL IMPACT STATEMENT STATUS REPORT $ ENVIRONMENT CANADA 1982

ENVIRONMENTS
0204 CROW,S.A., AHEARN,D.G. DEGRADATION OF OIL BY YEAST AND FILAMENTOUS FUNGI IN ARCTIC ENVIRONMENTS $ GEORGIA STATE UNIV ATLANTA AD-A078-892/7 13P. 1979

0484 MALINS,D.C., KRAHN,M.M., BROWN,D.W., MACLEOD,W.D., COLLIER,T.K. ANALYSIS FOR PETROLEUM PRODUCTS IN MARINE ENVIRONMENTS $ NOAA NATL MARINE FISHERIES SERV NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA HELGOLANDER MEERESUNTER- SUCHUNGEN 33 (1-4) P. 257-271 1980

ENVIRONMENTS
0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BRUNGS,W.A., CUMMING,R.B. WATER CHLORINATION 3 P. 845-850 1980

0807 WESTLAKE,D.W.S., COOK,F.D. PETROLEUM BIODEGRADATION POTENTIAL OF NORTHERN PUGET-SOUND AND STRAIT OF JUAN-DE-FUCA ENVIRONMENTS $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WASHINGTON PB-81-141137 147P. 1980

0849 BOEHM,P.D., BARAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

0884 ERNST,W.D., GUNDLACH,E.R., THEBEAU,L.C., SADD,J.L. SENSITIVITY OF COASTAL ENVIRONMENTS TO SPILLED OIL: SOUTHERN CAROLINA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-188061 47P. 1982

1017 OWENS,E.H. CANADIAN INLAND WATERS COASTAL ENVIRONMENTS AND THE CLEANUP OF OIL SPILLS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-3 OTTAWA ONTARIO 1982

ENVIRONS
0114 BROWN,D.W., FRIEDMAN,A.J., PROHASKA,P.G., MACLEOD,W.D. JR. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND PART II (SECOND-YEAR CONTINUATION) $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-82-104290 46P. 1981

0115 BROWN,D.W., FRIEDMAN,A.J., BURROWS,D.G. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND $ NOAA NATIONAL ANALYTICAL FACILITY SEATTLE WA PB-80-128218 120P. 1979

EPIFANIO,C.E
0205 CUCCI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB "EURYPANOPEUS-DEPRESSUS" $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203508 9P. 1979

EPITHELIUM
0609 NUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

EPLER,J.L
0354 HO,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., KAO,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

0661 KAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HO,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

EPSTEIN,E
0759 TAFFEL,M., EPSTEIN,E. A STUDY OF RAPID BIODEGRADATION OF OILY WASTES THROUGH COMPOSTING $ ENERGY RESOURCES CO INC CAMBRIDGE MA AD-A081-432/7 57P. 1979

EQUIPMENT
0022 ANON. OIL SPILLS FROM SUBSTATION ELECTRICAL EQUIPMENT $ IEEE TRANS POWER APPAR SYST PAS-99 (3) P. 925-927 1980

0276 FRASER,J.P. OIL SPILL COUNTERMEASURES A RATIONAL SYSTEM FOR SELECTION AND SIZING OF EQUIPMENT $ SHELL OIL CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 253-255 1979

0325 HABERCOM,G.E. JR. OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT 1976-JULY 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-814809 115P. 1980

0371 IEEE OIL SPILLS FROM SUBSTATION ELECTRICAL EQUIPMENT $ IEEE TRANSACTIONS ON POWER APPARATUS AND SYSTEMS 99 (3) P. 925-927 1980

0373 IMBRIE,R.J., KARWAN,K.R. COMPUTER SEARCHING FOR POLLUTION CLEANUP EQUIPMENT $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 257-260 1979

0571 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT JANUARY 1974-AUGUST 1981 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB-81-872640 140P. 1981

0572 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT JANUARY 1973-AUGUST 1981 (CITATIONS FROM THE BHRA FLUID ENGINEERING DATA BASE) $ PB-81-873838 58P. 1981

0602 NOBUNAGA,H. ANTI-OCEAN-POLLUTION EQUIPMENT AND SHIPS FOR RECOVERING SPILT OIL $ WORKSHIP DES DEP ISHIKAWAJIMA-HARIMA HEAVY IND CO LTD TOKYO JAPAN KENRYO GYOBI KENSHO 47 (8) P. 651-68 1980

0941 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT 1976-NOVEMBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ P882-803172 165P. 1982

1107 ANONYMOUS WORLD WIDE DIRECTORY OFFSHORE CONTRACTORS AND EQUIPMENT $ THE PETROLEUM PUBLISHING CO TULSA OKLAHOMA 1979

ERGONOMIC
0794 VERHAGEN,L.H.J.M. ERGONOMIC ASPECTS OF CENTRALIZED SUPERVISION AND CONTROL OF OIL MOVEMENT AND STORAGE $ TWENTE UNIV TECHNOL WORKING GROUP ERGON ENSCHEDE NETHERLANDS IN: AUNE,A.B., VLIESTSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS P. 57-61 1980

ERMAK,D.L
0910 HOGAN,W.J., ERMAK,D.L., KOOPMAN,R.P., LUDWIGSON,J. (ED.) PREDICTING THE HAZARDS FROM LARGE SPILLS OF LIQUEFIED-GASEOUS-FUELS $ LAWRENCE LIVERMORE NATL LAB LIVERMORE CA HAZARD MATER SPILLS CONF PROC P. 391-8 1982

ERNST,W.D
0884 ERNST,W.D., GUNDLACH,E.R., THEBEAU,L.C., SADD,J.L. SENSITIVITY OF COASTAL ENVIRONMENTS TO SPILLED OIL: SOUTHERN CAROLINA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-168061 47P. 1982

ESTES,E.L
0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

ESTES,J.E
0249 ESTES,J.E., WILSON,M., HAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

ESTIMATING
0263 FINKELSTEIN,K., GUNDLACH,E.R. METHOD FOR ESTIMATING SPILLED OIL QUANTITY ON THE SHORELINE $ UNIV S CAROLINA DIV COASTAL RES COLUMBIA SC ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (5) P. 545-54 1981

ESTIMATION
0016 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SUKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

0228 DRAKE,E.M., WESSON,H.R. REVIEW OF LNG SPILL VAPOR DISPERSION AND FIRE HAZARD ESTIMATION AND CONTROL METHODS $ ARTHUR D. LITTLE INC CAMBRIDGE MASS AM GAS ASSOC OPER SECT PROC 17P. 1976

0972 REED,M. OIL SPILL FATES AND FISHERY IMPACT ESTIMATION $ APPL SCI ASSOCIATES INC WAKEFIELD RI MARINE TECHNOLOGY SOCIETY JOURNAL 15 (4) P. 40-42 1981

ESTUARIES
0067 BENDER,M.E., SHEARLS,E.A., HUGGETT,R.J., MURRAY,L. ECOLOGICAL EFFECTS OF EXPERIMENTAL OIL SPILLS IN EASTERN COASTAL PLAIN ESTUARIES $ VA INST OF MAR SCI GLOUCESTER POINT ENVIRON INT 3 (2) P. 121-133 1980

ESTUARIES

0298 GETTER,C.D., HAYES,M.O. THE COMPARATIVE SENSITIVITIES OF 5 UNITED-STATES ESTUARIES TO OIL AND HAZARDOUS MATERIALS SPILLS $ RES AND PLANNING INST COLUMBIA SC ESTUARIES 4 (3) 244P. 1981

ESTUARINE

0004 AHEARN,D.G., COOK,W.L., CROW,S.A. EFFECTS OF POLLUTANTS ON MICROBIAL ACTIVITIES IN ESTUARINE SURFACE FILMS $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-171183 28P. 1981

0162 CARLBERG,S.R. OIL POLLUTION OF THE MARINE ENVIRONMENT WITH AN EMPHASIS ON ESTUARINE STUDIES $ NAIL BOARD FISHERIES DEPT HYDROG GOTEBORG SWEDEN IN: OLAUSSON,E., CATO,I. CHEMISTRY AND BIOGEOCHEMISTRY OF ESTUARIES P. 367-402 1980

0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

0329 HAMBRICK,G.A. III, DELAUNE,R.D., PATRICK,W.H. JR. EFFECT OF ESTUARINE SEDIMENT PH AND OXIDATION-REDUCTION POTENTIAL ON MICROBIAL HYDROCARBON DEGRADATION $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-128233 6P. 1980

0496 MARTIN,B.J. EFFECTS OF PETROLEUM COMPOUNDS ON ESTUARINE FISHES $ UNIVERSITY OF SOUTHERN MISSISSIPPI HATTIESBURG PB-80-141310 43P. 1980

0760 TAGATZ,M.E., IVEY,J.M., OGLESBY,J.L. TOXICITY OF DRILLING-MUD BIOCIDES TO DEVELOPING ESTUARINE MACROBENTHIC COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY GULF BREEZE FLA PB-81-106031 10P. 1980

0812 WHITTLE,P.J., HORNE,M.W. CHARACTERIZATION OF OIL SPILLS ON INLAND AND ESTUARINE WATERS $ NORTH WEST WATER AUTH WARRINGTON ENGL J INST WATER ENG SCI 34 (1) P. 50-60 1980

0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

0962 UVIATT,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

0973 REISH,D.J., OSHIDA,P.S., MILKES,F.G., MEARNS,A.J., ROSI,S.S. MARINE ESTUARINE POLLUTION $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB82-128174 28P. 1981

ESTUARINE
0983 SOLANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND TRINECTES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MS JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

1014 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF DISPERSED OIL ON AN ESTUARINE ISOPOD $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-1 OTTAWA ONTARIO 1982

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1980

ESTUARY
0455 LINDSTEDT-SIVA,J. PREPARING FOR OIL SPILLS IN THE DELAWARE RIVER ESTUARY $ ATL RICHFIELD CO LOS ANGELES CALIF COASTAL ZONE '80 PROC OF THE SYMP ON COASTAL AND OCEAN MANAGE P. 294-311 1980

ETKIN,V.S
0077 BESPALOVA,E.A., MILITSKIY,V.A., POKROVSKAYA,I.V., MIROVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (10) P. 54-58 1978

EUROCEAN
1077 EUROCEAN PETROLEUM AND THE MARINE ENVIRONMENT $ GRAHAM AND TROTMAN LIMITED LONDON 1981

EUROPE
0989 SUCH,W. BEING SMART BEFORE THE DAMAGE IS DONE EXPERIENCES WITH PIPELINE ACCIDENTS IN EUROPE $ UMSCHAU DAS WISSENSCHAFTSMAGAZIN 82 (4) 119P. 1982

EURYPANOPEUS-DEPRESSUS
0205 CUCCI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB "EURYPANOPEUS-DEPRESSUS" $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203508 9P. 1979

EVALUATED
0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

EVALUATING
0512 MELENT'EVA,N.I., MALYSHEVA,I.V., KALITINA,N.N., SAVIN,L.N. ACCELERATED METHOD FOR EVALUATING CHEMICAL STABILITY OF FUELS DURING LONG-TERM STORAGE $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 843-846 1979

EVALUATING

0904 HAMMOND,K.A.G. ENVIRONMENTAL ASPECTS OF POTENTIAL PETROLEUM EXPLORATION AND EXPLOITATION IN ANTARCTICA: FORECASTING AND EVALUATING RISKS $ MARINE MAMMAL COMMISSION WASHINGTON,D.C. PB82-169772 34P. 1982

EVALUATION

0064 BELLIER,P., MASSART,G. AMOCO-CADIZ OIL-SPILL CLEANUP OPERATIONS AN OVERVIEW OF THE ORGANIZATION CONTROL AND EVALUATION OF THE CLEANUP TECHNIQUES EMPLOYED $ CEDRE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 141-146 1979

0161 CARD,J.C., COJEEN,H.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-711/3 174P. 1979

0174 CHURSHUKOV,E.S., MAIKO,L.P., ZAKHAROVA,N.N., KUZNETSOV,V.A. EVALUATION OF WATER-DISPLACING ABILITY OF OILS BY ELECTROCHEMICAL METHOD $ CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (9-10) P. 766-767 1979

0219 DICKSON,J.G., ADAMS,V.D. EVALUATION OF MUTAGENICITY TESTING OF EXTRACTS FROM PROCESSED OIL-SHALE $ OFFICE OF WATER RESEARCH AND TECHNOLOGY WASHINGTON, D.C. PB-80-203458 52P. 1980

0258 FENNER,R.G., REID,S.C., SOLIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

0272 FOSTER,D.M., SCHWARTZ,S.H., SMITH,G.F. A STATISTICAL EVALUATION OF OHMSETT TESTING $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-226128 39P. 1981

0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

0390 JUHASZ,F. ECONOMIC EVALUATION OF THE ENVIRONMENTAL EFFECTS OF OIL POLLUTION A PRACTICAL LESSON USING THREE CASE HISTORIES $ OECD PARIS FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 53-58 1979

0430 LAYNE,M.D. TEST AND EVALUATION OF THE TRECAN INCINERATOR $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A099-527/4 112P. 1981

0451 LICHTE,H.W. SKIMMING BARRIER PERFORMANCE EVALUATION: OFFSHORE VERSION AND HARBOR VERSION $ MASON AND HANGER-SILAS MASON CO LEONARDO NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 489-492 1979

EVALUATION

0584 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. SAFETY EFFECTIVENESS EVALUATION FEDERAL AND STATE ENFORCEMENT EFFORTS IN HAZARDOUS MATERIALS TRANSPORTATION BY TRUCK $ PB-81-180101 113P. 1981

0647 PIERMAN,B.C. THE APPLICATION OF FAULT-TREES TO THE EVALUATION OF RISK $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-80-188790 4P. 1979

0728 SKAALEN,C.I., KAUSCH,A.B. ENGINEERING EVALUATION OF SORBENT DISPENSING/COLLECTION SYSTEM UNIVERSAL MOUNTING ARRANGEMENT $ CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA AD-A078-431/4 46P. 1979

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

0763 TAM,W.K., PURVES,W.F. EXPERIMENTAL EVALUATION OF OIL SPILL COMBUSTION PROMOTERS $ ARCTEC CAN LTD KANATA ONT P. 415-421 1980

0781 TURNER,M.J. SAFETY EVALUATION OF CROSS COUNTRY PIPELINES $ HEALTH AND SAF EXEC LONDON ENGL 7TH INT SYMP INST CHEM ENG SYMP SER (58) P. 245-256 1980

0814 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP II THE EVALUATION OF OIL ABSORBABILITY OF NATURAL SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 29-35 1981

0939 NATIONAL RESEARCH COUNCIL WASHINGTON,D.C. ARCTIC TERRESTRIAL ENVIRONMENTAL RESEARCH PROGRAMS OF THE OFFICE OF ENERGY RESEARCH DEPARTMENT OF ENERGY: EVALUATION AND RECOMMENDATIONS $ PB82-197088 80P. 1982

0996 WIDAYAT,K.P., MOERDOKO,W., WINIATI,W., HAGIWARA,K. HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP III FORMATION AND EVALUATION OF THE NATURAL SORBENTS $ OSAKA IND RES INST OSAKA JAPAN OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (4) P. 269-75 1981

1013 ENVIRONMENTAL PROTECTION SERVICE AN EVALUATION OF OIL SKIMMERS AND PUMPS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-4 OTTAWA ONTARIO 1981

1037 BROWN,W.J., DENHAM,F.R. AN ECONOMIC EVALUATION OF A MOBILE ROTARY-KILN DESIGNED FOR THE CLEANUP OF OIL CONTAMINATED BEACHES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-10 OTTAWA ONTARIO 1980

1041 CORROSION SERVICE COMPANY LIMITED EVALUATION AND PREVENTION OF CORROSION LEAKS ON BURIED STORAGE TANKS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-14 OTTAWA ONTARIO 1981

EVALUATION
1055 LEA,B.N. FIELD EVALUATION OF OIL SPILL TRACKING DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-28 OTTAWA ONTARIO 1982

1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174402 1980

1125 ANONYMOUS OIL SPILL CONTAINMENT BOOM EVALUATION TRIALS NORTH SASKATCHEWAN RIVER $ CANADIAN PETROLEUM ASSOCIATION PRAIRIE REGION 1980

1131 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

EVANS,G.B
0854 BROWN,K.W., BRAWAND,H., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 257-261 1982

EVANS,S.V
0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

EVENT
0693 SAMPSON,A.R., SMITH,R.L. ASSESSING RISKS THROUGH THE DETERMINATION OF RARE EVENT PROBABILITIES $ AIR FORCE OFFICE OF SCIENTIFIC RESEARCH BOLLING AFB D.C. AD-A092-192/4 47P. 1980

EVENTS
0614 OFFICE OF RADIATION PROGRAMS WASHINGTON, D.C. THE CONSEQUENCES AND FREQUENCY OF SELECTED MAN ORIENTED ACCIDENT EVENTS $ PB-80-211303 233P. 1980

EVERETT,K
0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,U., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1980

EVOLUTION
0198 CORTES,A., ALTAMIRANO,J. CHEMICAL EVOLUTION OF HYDROCARBONS IN WEATHERED BEACH OIL SAMPLES AFTER THE IXTOC-1 ACCIDENT $ INST MEXICANO PETR DIV ANALYT MEXICO CITY MEXICO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 10P. 1980

0491 MARCHAND,M.H. THE AMOCO-CADIZ OIL SPILL DISTRIBUTION AND EVOLUTION OF HYDROCARBON CONCENTRATIONS IN SEAWATER AND MARINE SEDIMENTS $ CENT OCEANOL BRETAGNE CNEXO BREST FR ENVIRON INT 4 (5-6) P. 421-9 1980

EVOLUTION
0663 RAVENNA,K.C. COLLISION-AVOIDANCE SYSTEMS THE EVOLUTION CONTINUES $ SPERRY MAR SYST SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 193-197 1980

0802 WARD,D.M., ATLAS,R.M., BOEHM,P.D., CALDER,J.A. MICROBIAL BIODEGRADATION AND CHEMICAL EVOLUTION OF OIL FROM THE AMOCO-CADIZ SPILL $ MONT STATE UNIV BOZEMAN AMBIO 9 (6) P. 277-283 1980

0935 MUREL,G., COURTOT,P. EVOLUTION OF HYDROCARBONS IN A CONFINED MARINE SITE FOLLOWING THE PETROLEUM POLLUTION OF THE AMOCO-CADIZ $ UNIV BRETAGNE OCCIDENTALE FAC SCI AND TECH BREST FRANCE BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE PT I (11-1) P. 387-388 1981

0970 RAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., MEUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS OF BIOLOGIE MARINE 22 (3) P. 323-348 1981

EWALD,M
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

EX-DANALAND
0899 GOODIER,J.L., SICLARI,R.J. COMBUSTION: AN OIL SPILL MITIGATION TOOL PHASE II THE BURNING OF THE M/T BURMAH-AGATE (EX-DANALAND) $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 134P. 1981

EXCAVATION
0670 RICHTER,M., KALLENOWSKY,E. A METHOD SAVING EXCAVATION WORK FOR REPAIRING LEAKS IN LOW PRESSURE GAS PIPELINES $ BRENNSTOFFINST FREIBERG FACHBEREICH LEIPZIG LEIPZIG GER ENERGIETECHNIK 31 (2) P. 58-61 1981

EXHAUST
0642 PEPELKO,W.E., MATTOX,J.R., YANG,Y.Y., MOORE,W. JR. PULMONARY FUNCTION AND PATHOLOGY IN CATS EXPOSED 28 DAYS TO DIESEL EXHAUST $ HEALTH EFFECTS RESEARCH LAB CINCINNATI OHIO PB-81-196578 11P. 1980

0797 VINEGAR,A., CARSON,A.I., PEPELKO,W.E. PULMONARY FUNCTION CHANGES IN CHINESE HAMSTERS EXPOSED SIX MONTHS TO DIESEL EXHAUST $ DEP ENVIRON HEALTH UNIV CINCINNATI OHIO PROC INT SYMP PB-81-13817 P. 749-56 1980

EXP-238-PUO-SUB-2-FUEL
0019 ANGERMAN,C.L., BICKFORD,D.F., GOULD,T.H. JR., SMITH,P.K. SAFETY ANALYSIS REPORT FOR THE EXP-238-PUO-SUB-2-FUEL FORM FACILITY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 200P. 1977

EXPANSION
1117 ROSS,S.L. NORMAN-WELLS OILFIELD EXPANSION OIL SPILL SCENARIOS AND COUNTERMEASURES $ S.L. ROSS ENVIRONMENTAL RESEARCH LTD NWT 1980

EXPERIENCE
0085 BLACKBOURN,S.R. TEXAS 1979 EXPERIENCE WITH MARCO FILTERBELT SKIMMERS ON IXTOC-1 AND BURMAH-AGATE CRUDE OIL-SPILLS $ MARCO SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S P. 398-406 1980

0226 DOZOUVILLE,L., BERNE,S., GUNDLACH,E.R., HAYES,M.O. COASTAL MORPHOLOGY AND OIL SPILL POLLUTION THE AMOCO-CADIZ EXPERIENCE $ CTR OCEANOL BRETAGNE F-29273 BREST FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 557-571 1981

0636 PASCHALL,V.R. OPERATING EXPERIENCE FOR A GAS PIPELINE LEAK DETECTION SYSTEM $ LONE STAR GAS CO SAGINAW TX PROC INT SCH HYDROCARBON MEAS 56 P. 557-9 1981

0742 SPATZ,D.D. MULTI-YEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMONICS INC HOPKINS MN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 108P. 1980

0743 SPATZ,D.D. MULTIYEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMON INC IND RD HOPKINS MN ACS SYMPOSIUM SERIES (154) P. 221-236 1981

0803 WEBER,E.C., BURGESS,W.S. MARYLAND'S EXPERIENCE IN SPILL PREVENTION AND CONTROL $ WATER RESOUR ADM ANNAPOLIS MD PROC MID ATL IND WASTE CONF 12TH BUCKNELL UNIV LEWISBURG PA P. 24-28 1980

EXPERIENCES
0362 HOLMES,P.D. PRACTICAL EXPERIENCES OF THE HANDLING AND DISPOSAL OF WATER-IN-OIL EMULSIONS $ BR PET CO LONDON ENGL ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 98-108 1980

0989 SUCH,W. BEING SMART BEFORE THE DAMAGE IS DONE EXPERIENCES WITH PIPELINE ACCIDENTS IN EUROPE $ UMSCHAU DAS WISSENSCHAFTSMAGAZIN 82 (4) 119P. 1982

EXPERIMENTS
0037 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE OIL IN SEDIMENT ON ABARENICOLA-PACIFICA IN LABORATORY AND FIELD EXPERIMENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1980

0658 RAJ,P.P.K., MOUSSA,A.N., ARAVAMUDAN,K. EXPERIMENTS INVOLVING POOL AND VAPOR FIRES FROM SPILLS OF LIQUEFIED-NATURAL-GAS ON WATER $ COAST GUARD WASHINGTON, D.C. AD-A077-073/5 258P. 1979

EXPERIMENTS

0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

0984 SORENSEN,B.M., STURM,B., TASSAN,S. SOME RESULTS FROM EXPERIMENTS ON REMOTE-SENSING OF WATER QUALITY AND OIL POLLUTION IN THE MEDITERRANEAN SEA $ COMMISS EUROPEAN COMMUNITIES JOINT RES CTR ISPRA ITALY IN: ENVIRONM RES INST MICHIGAN PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 1 AND 2 P. 417-424 1982

1053 REMOTEC APPLICATIONS INC LABORATORY EXPERIMENTS IN THE DETECTION OF OIL UNDER ICE $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-26 OTTAWA ONTARIO 1981

EXPLOITATION

0904 HAMMOND,K.A.G. ENVIRONMENTAL ASPECTS OF POTENTIAL PETROLEUM EXPLORATION AND EXPLOITATION IN ANTARCTICA: FORECASTING AND EVALUATING RISKS $ MARINE MAMMAL COMMISSION WASHINGTON,D.C. PB82-169772 34P. 1982

EXPLORATION

0649 POLEY,J.P. SELECTIVE OIL SPILL COMBAT PLANNING FOR OFFSHORE EXPLORATION AND PRODUCTION OPERATIONS IN THE NORTH SEA $ SHELL INT PET THE HAGUE NETH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 641-647 1979

0904 HAMMOND,K.A.G. ENVIRONMENTAL ASPECTS OF POTENTIAL PETROLEUM EXPLORATION AND EXPLOITATION IN ANTARCTICA: FORECASTING AND EVALUATING RISKS $ MARINE MAMMAL COMMISSION WASHINGTON,D.C. PB82-169772 34P. 1982

EXPLORATORY

1061 MACKAY,D., HUSSAIN,K. AN EXPLORATORY STUDY OF SEDIMENTATION OF NATURALLY AND CHEMICALLY DISPERSED OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-35 OTTAWA ONTARIO 1982

EXPLOSION

0060 BELASH,V.D., FEDOTOV,M.N. FORMATION OF LOCAL EXPLOSION HAZARDOUS PROPANE-AIR MIXTURES $ LENINGR FILIAL USES NAUCHNO-ISSLED INST PROTIVOPOZHARNO OBORONY LENINGRAD GAZOV PROM-ST (8) P. 55-7 1980

0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

0369 HUTCHISON,J.H., SIMONSEN,B.L. CLEANUP OPERATIONS AFTER THE 1976 SS-SANSINENA EXPLOSION AN INDUSTRIAL PERSPECTIVE $ IT CORP WILMINGTON CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 429-434 1979

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

EXPLOSION
0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF CORDELLE GEORGIA EXPLOSION AND FIRE CORDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

0591 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSION 215 THIRD STREET SE WASHINGTON, D.C. OCTOBER 30 1979 $ PB-80-213457 33P. 1980

0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

0635 PARNAROUSKIS,M.C., TAYLOR,M.W., LIND,C.D., RAJ,P.P.K., CECE,J.M. VAPOR CLOUD EXPLOSION STUDY $ US COAST GUARD WASHINGTON, D.C. CONGR INT SUR LE GAZ NAT LIQUEFIE 6TH 2 16P. 1980

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

EXPLOSIONS
0592 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSIONS AT ANNANDALE VIRGINIA MARCH 24 1972 $ PB-214-328/7 42P. 1972

0595 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT PENNSYLVANIA GAS AND WATER COMPANY NATURAL-GAS EXPLOSIONS WILLIAMSPORT PENNSYLVANIA JANUARY 25 1977 $ PB-277-052/7ST 26P. 1977

EXPOSURE
0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE DR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

0244 ENGELHARDT,F.R., WONG,M.P., DUEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

EXPOSURE

0609 NUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

0822 WONG,C.K., ENGELHARD,F.R., STRICKLER,J.R. SURVIVAL AND FECUNDITY OF DAPHNIA-PULEX ON EXPOSURE TO PARTICULATE OIL $ UNIV OF OTTAWA ONT CAN BULL ENVIRON CONTAM TOXICOL 26 (5) P. 606-612 1981

0839 BATTERSHILL,C.N., BERGQUIST,P.R. RESPONSES OF AN INTER-TIDAL GASTROPOD TO FIELD EXPOSURE OF AN OIL AND A DISPERSANT $ UNIV AUCKLAND DEPT ZOOL AUCKLAND NEW ZEALAND MARINE POLLUTION BULLETIN 13 (5) P. 159-162 1982

0890 FOLMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HODGINS,H.O. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 458-462 1981

0987 STEKOLL,M.S., CLEMENT,L.E., SHAW,D.G. SUBLETHAL EFFECTS OF CHRONIC OIL EXPOSURE ON THE INTERTIDAL CLAM "MACOMA-BALTHICA" $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB82-158163 12P. 1982

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

EXTINGUISHMENT

0385 JOHNSON,D.W., MARTINSEN,W.E., CAVIN,W.D., CHILTON,P.D., LAWSON,H.P. CONTROL AND EXTINGUISHMENT OF LPG FIRES FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 124P. 1980

EXTRACTED

0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

EXTRACTS

0219 DICKSON,J.G., ADAMS,V.D. EVALUATION OF MUTAGENICITY TESTING OF EXTRACTS FROM PROCESSED OIL-SHALE $ OFFICE OF WATER RESEARCH AND TECHNOLOGY WASHINGTON, D.C. PB-80-203458 52P. 1980

EXTRACTS
0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

EXXON
0775 TRACY,K.D., ZITRIDES,T.G. MUTANT BACTERIA AID EXXON WASTE SYSTEM $ ENVIRON DYN INC GREENVILLE SC HYDROCARBON PROCESS 59 (10) P. 95-98 1979

EYNON,S.B
0250 EYNON,S.B. LINE LEAK-DETECTION METHODS UPDATED $ HEATH CONSULTANTS INC STOUGHTON MA OIL GAS J 78 (37) P. 205-6 1980

EYRES,A.R
1128 EYRES,A.R. GUIDELINES FOR THE DETERMINATION OF ATMOSPHERIC CONCENTRATIONS OF OIL MISTS $ CONCAWE 1981

FACILITIES
0023 ANON. MARINE ENVIRONMENT AND OIL FACILITIES $ INST OF CIV ENG LONDON ENGL MAR ENVIRON AND OIL FACIL PROC OF A CONF 162P. 1978

0460 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST WATER PORT FACILITIES STUDY APPENDIX A WESTERN GULF HYDROBIOLOGICAL ZONES $ AD-A091-404/4 154P. 1973

0461 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX D ADVERSE ENVIRONMENTAL EFFECTS $ AD-A091-406/9 96P. 1973

0462 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX B NORTH CENTRAL GULF HYDROBIOLOGICAL ZONES $ AD-A091-405/1 99P. 1973

0463 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY ENVIRONMENTAL ASSESSMENT $ AD-A091-403/6 94P. 1973

0493 MARCUS,H.S., DENHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

0503 MCCRACKEN,W.F., CHARLTON,T.J., FREESTONE,F.J. OIL POLLUTION PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRON ASSESS COUNC INC NEW BRUNSWICK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 213-216 1979

0780 IRENTACOSTE,N.P., BIERMAN,G.R., CUNNINGHAM,J. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ SCIENCE APPLICATIONS INC MCLEAN VA PB-80-174287 227P. 1980

FACILITIES
1030 CAPROCU CORROSION PREVENTION LTD INVESTIGATION OF THE OVERFLOW AND LOSS OF PETROLEUM FUEL AT STORAGE FACILITIES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-3 OTTAWA ONTARIO 1980

1111 IRENTACOSTE,N.P., BIERMAN,G.R. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174287 1980

1123 ANONYMOUS EXISTING AND PROPOSED PROGRAMS AND MEASURES FOR THE PREVENTION OF DISCHARGES OF OIL OR HAZARDOUS POLLUTING SUBSTANCES FROM ONSHORE AND OFFSHORE FACILITIES $ MINISTRY OF THE ENVIRONMENT OTTAWA ONTARIO 1981

FACILITY
0019 ANGERMAN,C.L., BICKFORD,D.F., GOULD,T.H. JR., SMITH,P.K. SAFETY ANALYSIS REPORT FOR THE EXP-238-PUB-SUB-2-FUEL FORM FACILITY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 200P. 1977

0247 ENVIRONMENTAL PROTECTION AGENCY SEATTLE WA ALASKA PETROCHEMICAL COMPANY REFINERY AND PETROCHEMICAL FACILITY VALDEZ ALASKA $ PB-81-117038 349P. 1980

0472 LONG,E.R. PHYSICAL PROCESSES AND CRITICAL BIOLOGICAL AREAS IN THE VICINITY OF A PROPOSED PETROLEUM TRANSFER FACILITY $ NOAA SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S P. 489-497 1980

0477 LYSYJ,I. TREATMENT EFFECTIVENESS: OIL TANKER BALLAST WATER FACILITY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101361 189P. 1981

0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 /8P. 1980

0960 O'NEAL,W.C., BIANCHINI,G.M., BLOCKER,R.E., HIPPLE,D.L., HOGAN,W.J. 500-M-EXP-3 SPILL TEST FACILITY FOR LIQUEFIED-GASEOUS-FUELS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 25P. 1981

FAGAN,D
0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BRUNGS,W.A., CUMMING,R.B. WATER CHLORINATION 3 P. 845-850 1980

FAILSAFE
0307 GOUDIER,J.L., SICLARI,R.J., GARRITY,P.A. FUEL CONSERVATION BY THE APPLICATION OF SPILL PREVENTION AND FAILSAFE ENGINEERING: A GUIDELINE MANUAL $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 332P. 1981

FAIRHALL,D
1095 FAIRHALL,D., JORDAN,P. BLACK TIDE RISING - THE WRECK OF THE AMOCO-CADIZ $ ANDRE DEUTSCH LIMITED LONDON 1980

FALKE,A.M
0355 HUFFMAN,E.J., FALKE,A.M., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

FALLS-CHURCH
0711 SEAWARD INTERNATIONAL INC FALLS-CHURCH VA OIL POLLUTION RESPONSE PLANNING GUIDE FOR EXTREME WEATHER $ AD-A079-714/2 238P. 1979

FALMOUTH
0248 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. A SMALL OIL SPILL AT WEST FALMOUTH $ PB-80-170111 33P. 1979

0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

FANNELOP,T.K
0994 WALDMAN,G.D., FANNELOP,T.K. SPREADS OF OIL SLICKS ON A NATURAL BODY OF WATER COMMENT $ AVCO SYST DIV WILMINGTON MA AIAA JOURNAL 20 (3) 447P. 1982

1126 FANNELOP,T.K., SJOEN,K. HYDRODYNAMICS OF UNDER-WATER BLOWOUTS $ AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS NEW YORK NY 1980

FARLOW,J
0476 LYSYJ,I., RUSHWORTH,R., MELVOLD,R., FARLOW,J. EFFECTIVENESS OF A LARGE-SCALE BALLAST TREATMENT PROCESS $ ROCKWELL INT NEWBURY PARK CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 133-137 1979

FARLOW,J.S
0184 COHEN,S.H., LINDENMUTH,W.T., FARLOW,J.S. DEVELOPMENT AND TESTS OF AN AIR-JET OIL-BOOM $ HYDRONAUT INC LAUREL MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 433-487 1979

0251 FARLOW,J.S. (ED), SWANSON,C. (ED) DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION (SYMPOSIUM) 1978 $ EPA OFF OF RES AND DEV EDISON NJ ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP 147P. 1978

1110 FARLOW,J.S., WILDER,R., POTTER,C. OIL SPILL DEBRIS WHERE TO PUT THE WASTE $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-177454 1980

FARMING
0800 WAHBEH,N. DISPOSAL OF OILY WASTE FROM OIL SPILLS BY LAND FARMING $ HAZARDOUS MAT MANAGEMENT INC CASTRO VALLEY CA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 29-35 1980

FARMING
1114 BUNNIER,P.E. SLUDGE FARMING A TECHNIQUE FOR THE DISPOSAL OF OILY REFINERY WASTES $ CONCAWE 1980

FARRINGTON,J.W
0685 FARRINGTON,J.W., DAVIS,A.C., FREW,N.M., RABIN,K.S. NO-2-FUEL-OIL COMPOUNDS IN MYTILUS-EDULIS RETENTION AND RELEASE AFTER AN OIL SPILL $ WOODS HOLE OCEANOG INST DEPT CHEM WOODS HOLE MA MARINE BIOLOGY 66 (1) P. 15-26 1982

FASGADAIR
0252 FASGADAIR - BP TAKES DELIVERY OF ITS INSHORE OIL RECOVERY AND POLLUTION CONTROL VESSEL AFTER CONVERSION AT CLYDEDOCK ENGINEERING GLASGOW $ NAVAL ARCHITECT (3) P. E111-113 1981

FAST
0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PUAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

0688 SAINTPAUL,C., MUNIN,J.C., DURAND,B. FAST METHOD FOR CHARACTERIZING C-1 TO C-35 HYDROCARBONS CONTAINED IN SEDIMENTARY-ROCKS AND IN OILS $ INST FRANCAIS PETR PARIS FRANCE REVUE DE L INSTITUT FRANCAIS DU PETROLE 35 (6) P. 1065-1078 1980

FATE
0005 AHEL,M., PICER,M. AN OIL SPILL AT SEA ORIGIN AND FATE $ CENT ISTRAZIVANJE MORA INST "RUDER BOSKOVIC" ZAGREB-ROVINJ YUGOSLAVIA ACTA ADRIAT 21 (1) P. 237-48 1980

0033 ATLAS,R.M. FATE OF OIL FROM TWO MAJOR OIL SPILLS: ROLE OF MICROBIAL DEGRADATION IN REMOVING OIL FROM THE AMOCO-CADIZ AND IXTOC-1 SPILLS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY ENVIRON INT 5 (1) P. 33-8 1981

0086 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 1 OIL IN WATERS AND SEDIMENTS $ MINIST AGRIC FISH FOOD FISH LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX ENGL UK MAR POLLUT BULL 11 (7) P. 199-204 1980

0087 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 2 BIOLOGICAL EFFECTS $ MINISTRY AGRIC FISHERIES FOOD FISHERIES LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX UK MAR POLLUT BULL 11 (8) P. 217-220 1980

0387 JOHNSON,L.A., CULLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

0389 JORDAN,R.E., PAYNE,J.R. FATE AND WEATHERING OF PETROLEUM SPILLS IN THE MARINE ENVIRONMENT A LITERATURE REVIEW AND SYNOPSIS $ LA JOLLA CALIF 0 (0) P. X+174 1980

FATE

0432 LEE,R.F., DORNSEIF,B., GONSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

0433 LEE,R.F. PROCESSES AFFECTING THE FATE OF OIL IN THE SEA $ SKIDAWAY INST OCEANOGR SAVANNAH GA ELSEVIER OCEANOGR SER (AMSTERDAM) 27A NO. (MAR ENVIRON POLLUT VI HYDROCARBONS) P. 337-51, 531-68 1980

0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., ROWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD COUNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

0607 NOUNOU,P. OIL SPILL AGE: FATE AND EFFECTS OF OIL IN THE MARINE ENVIRONMENT $ CENT NATL POUR L'EXPLOIT DES OCEANS PARIS FR AMBIO 9 (6) P. 297-302 1980

0849 BOEHM,P.D., BARAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

0853 BONSDORFF,E., NELSON,W.G. FATE AND EFFECTS OF EKOFISK CRUDE-OIL IN THE LITTORAL OF A NORWEGIAN FJORD $ INST MAR BIOL UNIV BERGEN BLOMSTERDALEN NORWAY SARSIA 66 (3) P. 231-40 1981

0925 MAGEE,R.G., HANNAH,R.P. IXTOC-I OIL SPILL AN EXAMPLE OF TAR-BALL FORMATION TRANSPORT AND FATE $ ENG LAB COMPUTER SCI CORP NSTL STATION MISS J MISS ACAD SCI 26 (0) P. 22-27 1981

1007 SAMSON,A.L., VANDERMEULEN,J.H., WELLS,P.G., MOYSE,C. A SELECTED BIBLIOGRAPHY ON THE FATE OF OIL POLLUTION RELEVANT TO THE CANADIAN MARINE ENVIRONMENT $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-5 OTTAWA ONTARIO 1980

1088 MAGY,E., SCOTT,B.F., HART,J. THE FATE OF OIL AND DISPERSANT MIXTURES IN FRESHWATER ECOSYSTEMS $ NATIONAL WATER RESEARCH INSTITUTE ENVIRONMENT CANADA BURLINGTON ONTARIO 1980

1137 ANONYMOUS OIL SPILLS THEIR FATE AND IMPACT ON THE MARINE ENVIRONMENT $ WITHERBY AND CO LTD LONDON 1980

FATES

0014 AMOCO-CADIZ: FATES AND EFFECTS OF THE OIL SPILL $ (PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM CENTRE OCEANOLOGIQUE DE BRETAGNE BREST (FRANCE)) 881P. 1981

0972 REED,M. OIL SPILL FATES AND FISHERY IMPACT ESTIMATION $ APPL SCI ASSOCIATES INC WAKEFIELD RI MARINE TECHNOLOGY SOCIETY JOURNAL 15 (4) P. 40-42 1981

FAULT-TREES
0647 PIERMAN,B.C. THE APPLICATION OF FAULT-TREES TO THE EVALUATION OF RISK $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-80-188790 4P. 1979

FAUNA
0213 DENHARTOG,C., JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON AN EELGRASS COMMUNITY AT ROSCOFF (FRANCE) WITH SPECIAL REFERENCE TO THE MOBILE BENTHIC FAUNA $ CATHOLIC UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 182-191 1980

1043 DUVAL,W.S., FINK,R.P. THE SUBLETHAL EFFECTS OF WATER-SOLUBLE HYDROCARBONS ON THE PHYSIOLOGY AND BEHAVIOUR OF SELECTED MARINE FAUNA $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-16 OTTAWA ONTARIO 1981

FAY,J.A
0253 FAY,J.A. UNUSUAL FIRE HAZARD OF LNG TANKER SPILLS $ MASS INST OF TECHNOL CAMBRIDGE COMBUST SCI TECHNOL 7 (2) P. 47-49 1973

FAZAL,R.A
0254 FAZAL,R.A., MILGRAM,J.H. THE EFFECTS OF SURFACE PHENOMENA ON THE SPREADING OF OIL ON WATER $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-163629 73P. 1979

FECUNDITY
0822 WONG,C.K., ENGELHARD,F.R., STRICKLER,J.R. SURVIVAL AND FECUNDITY OF DAPHNIA-PULEX ON EXPOSURE TO PARTICULATE OIL $ UNIV OF OTTAWA ONT CAN BULL ENVIRON CONTAM TOXICOL 26 (5) P. 606-612 1981

FEDER,H.M
0255 FEDER,H.M., PAUL,A.J., MCDONALD,J. A PRELIMINARY SURVEY OF THE BENTHOS OF RESURRECTION-BAY AND AIALIK ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-182991 57P. 1979

FEDERLE,T.W
0930 MCKINLEY,V.L., FEDERLE,T.W., VESTAL,J.R. EFFECTS OF PETROLEUM HYDROCARBONS ON PLANT LITTER MICROBIOTA IN AN ARCTIC LAKE $ UNIV CINCINNATI DEPT BIOL SCI CINCINNATI OH APPLIED AND ENVIRONMENTAL MICROBIOLOGY 43 (1) P. 129-135 1982

FEDKENHEUER,A.W
0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

FEDOTOV,M.N
0060 BELASH,V.D., FEDOTOV,M.N. FORMATION OF LOCAL EXPLOSION HAZARDOUS PROPANE-AIR MIXTURES $ LENINGR FILIAL USES NAUCHNO-ISSLED INST PROTIVOPOZHARNO OBORNY LENINGRAD GAZOV PROM-ST (8) P. 55-7 1980

FEEDING
0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE COPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

0961 ORMOND,R.F.G., CALDWELL,S. THE EFFECT OF OIL POLLUTION ON THE REPRODUCTION AND FEEDING BEHAVIOR OF THE SEA-ANEMONE ACTINIA-EQUINA $ UNIV YORK DEPT BIOL YORK N YORKSHIRE ENGLAND MARINE POLLUTION BULLETIN 13 (4) P. 118-122 1982

FEELY,R.A
0257 FEELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

FELLINGHAM,G
0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

FELLINGHAM,G.W
0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

FENNER,R.G
0258 FENNER,R.G., REID,S.C., SOLIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

FERAL,J.P

0626 DUDOIT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

0627 DUDOIT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL $ LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

FERGUSON,J.D

0259 FERGUSON,J.D. FORMATION OF DIAGENETIC ALTERATION ZONES BY LEAKING RESERVOIR HYDROCARBONS OVER 3 OIL-FIELDS IN OKLAHOMA $ GULF OIL EXPLORAT AND PROD CO HOUSTON TX AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (5) 924P. 1981

FERGUSON,R.L

0838 ATWOOD,D.K., FERGUSON,R.L. AN EXAMPLE STUDY OF THE WEATHERING OF SPILLED PETROLEUM IN A TROPICAL MARINE ENVIRONMENT IXTOC-1 $ NOAA ATLANT OCEANOG AND METEOROL LABS RICKENBACKER CAUSEWAY MIAMI FL BULLETIN OF MARINE SCIENCE 32 (1) P. 1-13 1982

FERRY

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V POLA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

FICKIAN

0469 LIU,H., CHENG,A.H.D. MODIFIED FICKIAN MODEL FOR PREDICTING DISPERSION $ UNIV OF MD COLUMBIA ASCE J HYDRAUL DIV 106 (6) P. 1021-1040 1980

FICKLING,J.M

1083 FICKLING,J.M. (JR.), HAHN,R.W. (JR.) THE CHEMICAL TREATMENT OF OIL SPILLS THEORETICAL PRACTICAL AND PHILOSOPHICAL CONSIDERATIONS $ TEXAS A AND M UNIVERSITY 1980

FIELD

0037 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE OIL IN SEDIMENT ON ABAKENICULA-PACIFICA IN LABORATORY AND FIELD EXPERIMENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1980

0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

FIELD

0171 CHANG,R.K., BENNER,R.E. LASER-RAMAN POINT MONITORING OF METHANE VAPOR IN THE LNG STORAGE FIELD $ DEP ENG APPL SCI YALE UNIV NEW HAVEN CT PB-80-205347 39P. 1979

0221 DIMOCK,C.W., LAKE,J.L., NORWOOD,C.B., BOWEN,R.D., HOFFMAN,E.J. FIELD AND LABORATORY METHODS FOR INVESTIGATING A MARINE GASOLINE SPILL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-185712 5P. 1981

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MORITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

0378 JACKSON,W.B. ENVIRONMENTAL ASSESSMENT OF AN ACTIVE OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1977-1978 VOLUME II DATA MANAGEMENT AND BIOLOGICAL INVESTIGATIONS $ NATIONAL MARINE FISHERIES SERVICE GALVESTON TX PB-80-165970 799P. 1979

0516 MIDDLEDITCH,B.S. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME V HYDROCARBONS BIOCIDES AND SULFUR $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-178451 106P. 1980

0517 MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY EPILOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 421-432 1981

0518 MIDDLEDITCH,B.S., GALLAWAY,B.J. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY PROLOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 1-14 1981

0621 O'NEIL,R.A., BUJA-BIJUNAS,L., RAYNER,D.M. FIELD PERFORMANCE OF A LASER-FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ DEP OF ENERGY MINES AND RESOUR OTTAWA APPL OPT 19 (6) P. 863-870 1980

FIELD

0698 SCHIEGG,H.D. FIELD INFILTRATION AS A METHOD FOR THE DISPOSAL OF OIL-IN-WATER EMULSIONS FROM THE RESTORATION OF OIL POLLUTED AQUIFERS $ LAB HYDRAULICS HYDROL GLACIOL SWISS FED INST TECHNOL ZURICH SWITZ WATER RES 14 (8) P. 1031-16 1980

0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192429 63P. 1980

0727 SIZEMORE,K.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME III BACTERIOLOGY OF A GULF OF MEXICO GAS AND OIL FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192189 54P. 1980

0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

0769 TILLERY,J.B. ENVIRONMENTAL ASSESSMENT OF BULCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME VIII TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192452 127P. 1980

0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

0839 BATTERSHILL,C.N., BERGQUIST,P.R. RESPONSES OF AN INTER-TIDAL GASTROPOD TO FIELD EXPOSURE OF AN OIL AND A DISPERSANT $ UNIV AUCKLAND DEPT ZOOL AUCKLAND NEW ZEALAND MARINE POLLUTION BULLETIN 13 (5) P. 159-162 1982

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS I HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

1020 GREEN,D.R. CHEMISTRY I FIELD SAMPLING AND ENVIRONMENTAL CHEMISTRY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-1 OTTAWA ONTARIO 1981

1044 ENERGEX ENGINEERING ARCTIC FIELD TRIALS OF THE DREV/AMOP INCENDIARY DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-17 OTTAWA ONTARIO 1981

1055 LEA,B.N. FIELD EVALUATION OF OIL SPILL TRACKING DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-28 OTTAWA ONTARIO 1982

FIELD

1094 O'NEIL,L.B., RAYNER,D.M. FIELD PERFORMANCE OF A LASER FLUORUSENSOR FOR THE DETECTION OF OIL SPILLS $ REPRINT FROM APPLIED OPTICS 19 (6) P. 863-70 1980

FIELDER,G

0260 FIELDER,G., TELFER,D.J., HALL,T.S., WILSON,L., FRYER,R.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD 22P. 1980

0261 FIELDER,G., TELFER,D.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 24P. 1979

FIEST,D.L

0093 BUEHM,P.D., STEINHAUER,W.G., FIEST,D.L., MOSESMAN,N., BARAK,J.E., PERRY,G.H. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON POLLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMBRIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

0849 BOEHM,P.D., BARAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

0850 BOEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-I BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

FILM

0029 ARIEL,N.Z., BYUTNER,E.K., BORTKOVSKII,R.S., STROKINA,L.A. INFLUENCE OF OIL FILM POLLUTION OF THE OCEAN ON OXYGEN EXCHANGE WITH THE ATMOSPHERE $ SOV METEOROL HYDROL (2) P. 47-54 1979

0359 HUGE,F.E., SWIFT,R.N. OIL FILM THICKNESS MEASUREMENT USING AIRBORNE LASER INDUCED WATER RAMAN BACKSCATTER $ NASA WALLOPS FLIGHT CENT WALLOPS ISL VA APPL OPT 19 (19) P. 3269-3281 1980

0816 WILSON,A.R. AN EXPERIMENTAL THERMAL CORRECTION FOR PREDICTED OIL FILM THICKNESS IN ELASTOHYDRODYNAMIC CONTACTS $ SHELL RES LTD THORNTON RES CTR CHESTER CH1 CHESHIRE ENGL IN: DOWSON,D., TAYLOR,C.M., GODET,M., BERTHE,D. THERMAL EFFECTS IN TRIBOLOGY P. 179-190 1980

FILM

0836 ARST,K.H.Y., KARD,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

0978 SHEVELEVA,T.Y., KROPOTKIN,M.A., LEUS,N.B. METHOD OF MEASURING THE THICKNESS OF AN OIL FILM ON A WATER BASIN $ SOV METEOROL HYDROL (3) P. 72-74 1980

1006 RAYNER,D.M. THIN OIL FILM DETECTION LIMITS OF LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-3 OTTAWA ONTARIO 1980

FILMS

0004 AHEARN,D.G., COOK,W.L., CROW,S.A. EFFECTS OF POLLUTANTS ON MICROBIAL ACTIVITIES IN ESTUARINE SURFACE FILMS $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-171183 28P. 1981

0100 BOGORODSKII,V.V., SHEVELEVA,T.I., TARASHKEVICH,V.N. DAMPING OF WATER-WAVES BY SURFACE OIL FILMS $ ARCT AND ANTARCT RES INST LENINGRAD USSR DOKLADY AKADEMII NAUK SSSR 255 (1) P. 198-201 1980

0798 VISSER,H. TELEDETECTION OF THE THICKNESS OF OIL FILMS ON POLLUTED WATER BASED ON THE OIL FLUORESCENCE PROPERTIES $ TNO DELFT NETH APPL OPT 18 (11) P. 1746-1749 1979

0913 JOHNSON,J.W., CROSWELL,W.F. CHARACTERISTICS OF 13.9 GHZ RADAR SCATTERING FROM OIL FILMS ON THE SEA SURFACE $ NASA LANGLEY RES CTR HAMPTON VA RADIO SCIENCE 17 (3) P. 611-617 1982

FILTER

0969 RADUSKI,E. REMOVAL OF HYDROCARBON TASTE AND ODOR FROM POTABLE WATER BY REPLACEABLE CARBON CONTAINING FILTER CARTRIDGES $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A107-878/1 21P. 1981

FILTERBELT

0085 BLACKBOURN,S.R. TEXAS 1979 EXPERIENCE WITH MARCO FILTERBELT SKIMMERS ON IXTOC-1 AND BURMAH-AGATE CRUDE OIL-SPILLS $ MARCO SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S P. 398-406 1980

FILTRATION

0508 MCLACHLAN,A., HARTY,B. EFFECTS OF OIL ON WATER FILTRATION BY EXPOSED SANDY BEACHES $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 12 (11) P. 374-378 1981

FIN
0262 FINGERMAN,S.W. DIFFERENCES IN THE EFFECTS OF FUEL OIL AN OIL DISPERSANT AND THREE POLYCHLORINATED-BIPHENYLS ON FIN REGENERATION IN THE GULF COAST KILLIFISH FUNDULUS-GRANDIS $ TULANE UNIV NEW ORLENAS LA BULL ENVIRON CONTAM TOXICOL 25 (2) P. 234-240 1980

FINELY
0685 KUZENTSVAIG,A.K., TRUNOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

FINGERMAN,S.W
0262 FINGERMAN,S.W. DIFFERENCES IN THE EFFECTS OF FUEL OIL AN OIL DISPERSANT AND THREE POLYCHLORINATED-BIPHENYLS ON FIN REGENERATION IN THE GULF COAST KILLIFISH FUNDULUS-GRANDIS $ TULANE UNIV NEW ORLENAS LA BULL ENVIRON CONTAM TOXICOL 25 (2) P. 234-240 1980

FINGERPRINTING
0007 ALBAIGES,J. FINGERPRINTING PETROLEUM POLLUTANTS IN THE MEDITERRANEAN SEA $ CSIC INST QUIM ORGAN JORGE GIRONA SALGADO BARCELONA SPAIN IN: ALBAIGES,J. ANALYTICAL TECHNIQUES IN ENVIRONMENTAL CHEMISTRY 3 P. 69-81 1980

0892 FRAME,G.M., FLANIGAN,G.A., CHAMBERLAIN,C.P. CLEANUP PROCEDURE FOR CONTAMINATED OILS PRIOR TO FINGERPRINTING BY GAS-CHROMATOGRAPHY AND INFRARED-SPECTROSCOPY $ US COAST GUARD CTR RES AND DEV GROTON CT BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 29 (1) P. 29-36 1982

1106 CHIANG,S.Y.H. APPLICATION OF FLAME AND FLAMELESS ATOMIC-ABSORPTION METHODS TO THE "FINGERPRINTING" OF SPILLS ON WATER MEDIA OF NON-DISTILLATE PETROLEUM OILS $ CONCORDIA UNIVERSITY MONTREAL QUEBEC CANADA 1980

FINK,R.P
1014 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF DISPERSED OIL ON AN ESTUARINE ISOPOD $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-1 OTTAWA ONTARIO 1982

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1983

1043 DUVAL,W.S., FINK,R.P. THE SUBLETHAL EFFECTS OF WATER-SOLUBLE HYDROCARBONS ON THE PHYSIOLOGY AND BEHAVIOUR OF SELECTED MARINE FAUNA $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-16 OTTAWA ONTARIO 1981

FINKELSTEIN,K
0263 FINKELSTEIN,K., GUNDLACH,E.R. METHOD FOR ESTIMATING SPILLED OIL QUANTITY ON THE SHORELINE $ UNIV S CAROLINA DIV COASTAL RES COLUMBIA SC ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (5) P. 545-54 1981

FINNS

0668 RICH,V. BALTIC OIL POLLUTION FINNS FIGHT SPILL $ NATURE 287 (5784) P. 673 1980

FIRE

0176 CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA CARGO FIRE HAZARDS AND HAZARD CONTROL FOR THE SUPPLEMENT FUEL SUPPLY ASSEMBLY (SFSA) $ 44P. 1980

0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

0228 DRAKE,E.M., WESSON,H.R. REVIEW OF LNG SPILL VAPOR DISPERSION AND FIRE HAZARD ESTIMATION AND CONTROL METHODS $ ARTHUR D. LITTLE INC CAMBRIDGE MASS AM GAS ASSOC OPER SECT PROC 17P. 1976

0253 FAY,J.A. UNUSUAL FIRE HAZARD OF LNG TANKER SPILLS $ MASS INST OF TECHNOL CAMBRIDGE COMBUST SCI TECHNOL 7 (2) P. 47-49 1973

0346 HENRY,M.F. UNDERGROUND LEAKAGE OF HYDROCARBONS AN OVERVIEW OF A POTENTIAL FIRE PROBLEM $ FIRE J (BOSTON) 75 (2) P. 91-94 1981

0464 LITTLE,A.D. INC CAMBRIDGE MA FEASIBILITY OF METHODS AND SYSTEMS FOR REDUCING LNG TANKER FIRE HAZARDS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 342P. 1980

0497 MARTINSEN,W.E., JOHNSON,D.W., WELKER,J.R. FIRE SAFETY ON LPG IN MARINE TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 216P. 1980

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF CORDELLE GEORGIA EXPLOSION AND FIRE CORDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND E1-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT THE PIPELINES OF PUERTO-RICO INC PETROLEUM PRODUCTS PIPELINE RUPTURE AND FIRE BAYAMON PUERTO-RICO JANUARY 30 1980 $ PB-81-204851 69P. 1980

FIRE

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

0700 SCHNEIDER,A.L. LIQUEFIED-NATURAL-GAS SPILLS ON WATER FIRE MODELING $ US COAST GUARD WASHINGTON, D.C. J FIRE FLAMMABILITY 12 (4) P. 302-313 1980

0764 TAYLOR,A. STRATEGIC PETROLEUM RESERVE WEST HACKBERRY OIL STORAGE CAVERN FIRE AND SPILL OF SEPTEMBER 21 1978: AN ENVIRONMENTAL ASSESSMENT FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 680P. 1980

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

FIRE-PROOF

1120 BUIST,I. FIRE-PROOF BOOM DEVELOPMENT OHMSETT TRIALS $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1981

FIREPROOF

0188 COMFORT,G., MENON,B., PURVES,W.F. FEASIBILITY OF WATER-SPRAY-BARRIERS AS FIREPROOF OIL SLICK CONTAINMENT DEVICES $ ARCTEC CAN LTD KANATA ONT OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S SEATTLE WASH P. 422-427 1980

1119 BUIST,I. FIREPROOF BOOM DEVELOPMENT PHASE III - PROTOTYPE CONSTRUCTION AND TESTING FOR DOME PETROLEUM LTD $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1981

FIRES

0385 JOHNSON,D.W., MARTINSEN,W.E., CAVIN,W.D., CHILTON,P.D., LAWSON,H.P. CONTROL AND EXTINGUISHMENT OF LPG FIRES FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 124P. 1980

0658 RAJ,P.P.K., MOUSSA,A.N., ARAVAMUDAN,K. EXPERIMENTS INVOLVING POOL AND VAPOR FIRES FROM SPILLS OF LIQUEFIED-NATURAL-GAS ON WATER $ COAST GUARD WASHINGTON, D.C. AD-A077-073/5 258P. 1979

FISH

0113 BROWN,C.H. PROCEEDINGS OF THE 1979 US FISH AND WILDLIFE SERVICE POLLUTION RESPONSE WORKSHOP HELD AT ST PETERSBURG FLORIDA ON 8 $ FISH AND WILDLIFE SERVICE WASHINGTON, D.C. PB-80-141591 212P. 1979

FISH

0138 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME III RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186836 643P. 1979

0139 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF THE YEAR ENDING MARCH 1979 VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186844 669P. 1979

0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

0366 HOWARTH,R.W. FISH VERSUS FUEL: A SLIPPERY QUANDRY $ WOODS HOLE OCEANOGR INST MASS TECHNOL REV 83 (3) P. 68-77 1981

0412 KURULYUV,A.M., SYOMINA,T.K., MAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ AV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

0544 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130032 734P. 1978

0545 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME V RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130040 377P. 1978

1018 FOY,M.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-3 OTTAWA ONTARIO 1982

FISHERIES

0164 CARRANZAFRASER,J., SALGADO,M. PRELIMINARY RESULTS OF INVESTIGATIONS ON THE EFFECT OF THE IXTOC-I OIL SPILL ON THE ECOLOGY AND FISHERIES OF THE GULF OF MEXICO $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 33P. 1980

0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

1087 NORTON,M.G., FRANKLIN,F.L. FISHERIES RESEARCH TECHNICAL REPORT #57 $ MINISTRY OF AGRICULTURE FISHERIES AND FOOD LOWESTOFT 20P. 1980

FISHERY

0972 REED,M. OIL SPILL FATES AND FISHERY IMPACT ESTIMATION $ APPL SCI ASSOCIATES INC WAKEFIELD RI MARINE TECHNOLOGY SOCIETY JOURNAL 15 (4) P. 40-42 1981

FISHES

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0485 MALINS,D.C., HODGINS,H.O. PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (11) 1272P. 1981

0496 MARTIN,B.J. EFFECTS OF PETROLEUM COMPOUNDS ON ESTUARINE FISHES $ UNIVERSITY OF SOUTHERN MISSISSIPPI HATTIESBURG PB-80-141310 43P. 1980

0684 PAYNE,J.F. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ RES AND RESOURCE SERV ST JOHNS NEWFOUNDLAND CANADA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 370-372 1982

0926 MALINS,D.C., HODGINS,H.O. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 372-373 1982

0983 SOLANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND TRINECTES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MS JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

FISHING

0150 BUREAU OF LAND MANAGEMENT NEW-YORK ASSESSMENT OF SPACE AND USE CONFLICTS BETWEEN THE FISHING AND OIL INDUSTRIES VOLUME II ENGINEERING ASSESSMENT $ PB-81-215972 158P. 1981

0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCOLES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

FJORD

0166 CARSTENS,T., SENDSTAD,E. OIL SPILL ON THE SHORE OF AN ICE-COVERED FJORD IN SPITSBERGEN $ RIVER AND HARBOUR LAB TRONDHEIM NORWAY IN: NORWEGIAN INST TECHNOL PUAC 79: THE 5TH INTERNATIONAL CONF ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS VOL 2 P. 1227-1242 1979

FJORD
0853 BUNSDORFF,E., NELSON,W.G. FATE AND EFFECTS OF EKOFISK CRUDE-OIL IN THE LITTORAL OF A NORWEGIAN FJORD $ INST MAR BIOL UNIV BERGEN BLOMSTERDALEN NORWAY SARSIA 66 (3) P. 231-40 1981

FLAME
1106 CHIANG,S.Y.H. APPLICATION OF FLAME AND FLAMELESS ATOMIC-ABSORPTION METHODS TO THE "FINGERPRINTING" OF SPILLS ON WATER MEDIA OF NON-DISTILLATE PETROLEUM OILS $ CONCORDIA UNIVERSITY MONTREAL QUEBEC CANADA 1980

FLAME-ARRESTER
0084 BJORKLUND,R.A., KUSHIDA,R.O. FLASHBACK FLAME-ARRESTER DEVICES FOR FUEL CARGO TANK VAPOR VENTS $ COAST GUARD WASHINGTON, D.C. AD-A100-040/5 127P. 1981

FLAMELESS
1106 CHIANG,S.Y.H. APPLICATION OF FLAME AND FLAMELESS ATOMIC-ABSORPTION METHODS TO THE "FINGERPRINTING" OF SPILLS ON WATER MEDIA OF NON-DISTILLATE PETROLEUM OILS $ CONCORDIA UNIVERSITY MONTREAL QUEBEC CANADA 1980

FLANIGAN,G.A
0892 FRAME,G.M., FLANIGAN,G.A., CHAMBERLAIN,C.P. CLEANUP PROCEDURE FOR CONTAMINATED OILS PRIOR TO FINGERPRINTING BY GAS-CHROMATOGRAPHY AND INFRARED-SPECTROSCOPY $ US COAST GUARD CTR RES AND DEV GROTON CT BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 29 (1) P. 29-36 1982

FLASH
1002 MONIWA,Y., HONMA,Y. FLASH AND IGNITION POINTS OF LUBRICATING OILS $ HITACHI CO LTD HITACHI JAPAN JUNKATSU 16 (5) P. 364-9 1971

FLASHBACK
0084 BJORKLUND,R.A., KUSHIDA,R.O. FLASHBACK FLAME-ARRESTER DEVICES FOR FUEL CARGO TANK VAPOR VENTS $ COAST GUARD WASHINGTON, D.C. AD-A100-040/5 127P. 1981

FLEMING,K.N
0264 FLEMING,K.N., SILADY,F.A., HANNAMAN,G.W. TREATMENT OF OPERATOR ACTIONS IN THE HTGR RISK ASSESSMENT STUDY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1979

FLEMING,W.J
0886 FLEMING,W.J., SILED,L., FRANSON,J.C. TOXICITY OF PRUDHOE-BAY CRUDE-OIL TO SANDHILL CRANES $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD JOURNAL OF WILDLIFE MANAGEMENT 46 (2) P. 474-478 1982

FLEST,D.L
0851 BOEHM,P.D., FLEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-I BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

FLINT,R.W

0265 FLINT,R.W., RABALAIS,N.N. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975-1977 VOLUME I ECOSYSTEM DESCRIPTION $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-181506 358P. 1980

0266 FLINT,R.W., RABALAIS,N.N. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975-1977 VOLUME III STUDY AREA FINAL REPORTS $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-181522 650P. 1980

FLOATING

0691 NICHOLS,L.D. UNDERSTANDING AND IMPROVING SORBENTS FOR FLOATING OIL $ NATIONAL SCIENCE FOUNDATION WASHINGTON, D.C. PB-81-178097 48P. 1974

FLOCH,J.Y

0267 FLOCH,J.Y., DIOURIS,M. EFFECT OF AMOCO-CADIZ OIL SPILL ON PORTSALL (FRANCE) ALGAE: ECOLOGICAL SURVEY ON A VERY POLLUTED AREA $ INST ETUD MAR UNIV BRETAGNE OCCIDENT BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 381-91 1979

0268 FLOCH,J.Y., DIOURIS,M. INITIAL EFFECTS OF AMOCO-CADIZ OIL ON INTERTIDAL ALGAE $ BREST UNIV FR AMBIO 9 (6) P. 284-286 1980

FLORENCE,A.T

0214 DEPRAETERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

FLORES,R.G.C

0206 CUEVAS,P.A., FLORES,R.G.C., CASTELLANOS,T.R. GAS-CHROMATOGRAPHY AS A TECHNIQUE FOR OIL SPILL SOURCE IDENTIFICATION $ CROMATOGRAFIA DE GAS COMO TECNICA PARA LA IDENTIFICACION DE FUENTES DE DERRAME DE CRUDO INST MEX DEL PET MEXICO CITY REV INST MEX PET 12 (4) P. 30-41 1980

FLORIDA

0034 ATWOOD,D.K. PROCEEDINGS OF A SYMPOSIUM ON PRELIMINARY RESULTS FROM THE SEPTEMBER 1979 RESEARCHER/PIERCE IXTOC-I CRUISE HELD AT KEY BISCAYNE FLORIDA ON JUNE 9-10 1980 $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-81-246068 533P. 1980

0113 BROWN,C.H. PROCEEDINGS OF THE 1979 US FISH AND WILDLIFE SERVICE POLLUTION RESPONSE WORKSHOP HELD AT ST PETERSBURG FLORIDA ON 8 $ FISH AND WILDLIFE SERVICE WASHINGTON, D.C. PB-80-141591 212P. 1979

0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

FLORIDA

0269 FLORIDA UNIV GAINESVILLE DEPT OF ZOOLOGY THE DISSEMINATION AND COMBUSTION OF UNCONFINED LIQUEFIED-NATURAL-GAS CLOUDS $ AD-A089-315/6 59P. 1979

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102049 78P. 1980

0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

0695 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S. LONG-TERM EFFECTS OF THE BARGE FLORIDA OIL SPILL $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-144792 225P. 1981

FLOTATION

0752 STRICKLAND,W.T. JR. LABORATORY RESULTS OF CLEANING PRODUCED WATER BY GAS FLOTATION $ SHELL DEV CO SOC PET ENG AIME J 20 (3) P. 175-190 1980

0758 SYLVESTER,N.D., BYESEDA,J.J. OIL/WATER SEPARATION BY INDUCED-AIR FLOTATION $ UNIV OF TULSA OKLA SPEJ SOC PET ENG J 20 (6) P. 579-590 1980

FLOW

0527 MUKHERJEE,H., BRILL,J.P., BEGGS,H.D. EXPERIMENTAL STUDY OF OIL WATER FLOW IN INCLINED PIPES $ JOHNSTON MACCO SCHLUMBERGER SUGERLAND TX JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME 103 (1) P. 56-66 1981

0768 THUNVIK,R., BRAESTER,C. MODELING OF GROUND-WATER FLOW AROUND OIL STORAGE CAVERNS $ ROYAL INST TECHNOL DEPT LAND IMPROVEMENT AND DRAINAGE STOCKHOLM SWEDEN APPLIED MATHEMATICAL MODELLING 4 (3) P. 225-227 1980

0826 YOUNG,B.S., GEMICI,Y. FLOW MONITORING FOR LEAK DETECTION $ FOXBORO MUNICIPAL SALES INC FOXBORO MA IN: INSTRUMENT SOC AMER ADVANCES IN INSTRUMENTATION 35 PT 1 P. 497-502 1980

FLUID

0572 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT JANUARY 1973-AUGUST 1981 (CITATIONS FROM THE BHRA FLUID ENGINEERING DATA BASE) $ PB-81-873838 58P. 1981

FLUIDS

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

FLUORESCENCE
0218 DICK,R., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-40 1980

0338 HARTMANN,B., STEINVALL,O., WIDEN,A. TESTS OF LASER INDUCED FLUORESCENCE FROM ALGAE AT SEA $ LASERINDUCERAD FLUORESCENS FRAAN ALGER RESULTAT FRAAN ETT BAATBUR RESEARCH INST OF NATIONAL DEFENCE STOCKHOLM (SWEDEN) 52P. 1979

0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

0356 HOFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

0798 VISSER,H. TELEDETECTION OF THE THICKNESS OF OIL FILMS ON POLLUTED WATER BASED ON THE OIL FLUORESCENCE PROPERTIES $ TNO DELFT NETH APPL OPT 18 (11) P. 1746-1749 1979

FLUOROMETRY
0352 HILTRABRAND,R.R. CONTINUOUS OIL-IN-WATER MEASUREMENTS BY FLUOROMETRY $ US COAST GUARD RES AND DEV CENT GROTON CONN OCEANS (NEW YORK) ANNU COMB CONF OF IEEE AND MAR TECHNOL SOC 1979

FLUOROSENSING
1127 O'NEIL,R.A., HOGE,F.E., BRISTOW,M.P.F. THE CURRENT STATUS OF AIRBORNE LASER FLUOROSENSING $ ENVIRONMENT CANADA ANN ARBOR MICHIGAN 1981

FLUOROSENSOR
1094 O'NEIL,L.B., RAYNER,D.M. FIELD PERFORMANCE OF A LASER FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ REPRINT FROM APPLIED OPTICS 19 (6) P. 863-70 1980

FLUOROSENSORS
1005 RAYNER,D.M. EFFECT OF SURFACE TEMPERATURE ON THE REMOTE-SENSING OF OIL USING LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-2 OTTAWA ONTARIO 1980

1006 RAYNER,D.M. THIN OIL FILM DETECTION LIMITS OF LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-3 OTTAWA ONTARIO 1980

FOGELQVIST,E
0887 FOGELQVIST,E., LAGERKVIST,S., LINDROTH,P. PETROLEUM HYDROCARBONS IN THE ARCTIC OCEAN SURFACE WATER $ GOTHENBURG UNIV DEPT ANALYT AND MARINE CHEM GOTHENBURG SWEDEN MARINE POLLUTION BULLETIN 13 (6) P. 211-213 1982

FUGHT,J.M

0889 FUGHT,J.M., WESTLAKE,D.W.S. EFFECT OF THE DISPERSANT COREXIT-9527 ON THE MICROBIAL DEGRADATION OF PRUDHOE-BAY OIL $ UNIV ALBERTA DEPT MICROBIOL EDMONTON ALBERTA CANADA CANADIAN JOURNAL OF MICROBIOLOGY 28 (1) P. 117-122 1982

FULMAR,L.C

0890 FULMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HODGINS,H.O. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 458-462 1981

FULSOM,B.A

0270 FULSOM,B.A. DEVELOPMENT OF A HIGH CURRENT OILBOOM/SKIMMER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OHIO PB-80-219660 124P. 1980

FONDEKAR,S.P

0271 FONDEKAR,S.P., TOPGI,R.S., NORONHA,R.J. DISTRIBUTION OF PETROLEUM HYDROCARBONS IN GOA COASTAL WATERS $ NATL INST OCEANOG GOA INDIA INDIAN JOURNAL OF MARINE SCIENCES 9 (4) P. 286-288 1980

0991 TOPGI,R.S., NORONHA,R.J., FONDEKAR,S.P., SENGUPTA,R. DISSOLVED PETROLEUM HYDROCARBONS ALONG THE OIL TANKER ROUTE IN THE SOUTHERN BAY OF BENGAL $ NATL INST OCEANOG DONA PAULA DAMAN AND DIU INDIA INDIAN JOURNAL OF MARINE SCIENCES 11 (2) P. 175-176 1982

FOOD

0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BOECKOSIMUS-(BONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

0482 MAHONEY,B.M., HASKIN,H.H. EFFECTS OF PETROLEUM HYDROCARBONS ON THE GROWTH OF PHYTOPLANKTON RECOGNISED AS FOOD FORMS FOR THE EASTERN OYSTER CRASSOSTREA-VIRGINIA-GMELIN $ RUTGERS STATE UNIV NEW BRUNSWICK NJ ENVIRON POLLUT SER A 22 (2) P. 123-132 1980

0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

FORD,G.H

0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

FORD,R.G
0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

FORECAST
0348 HESS,K.W., KERR,C.L. MODEL TO FORECAST THE MOTION OF OIL ON THE SEA $ NATL WEATHER SERV SILVER SPRING MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 653-663 1979

FORECASTING
0458 LISSAUER,I.M. FORECASTING THE MOVEMENT OF OIL SPILLS $ US COAST GUARD RES AND DEV CENT GROTON CONN ENVIRON INT 3 (2) P. 145-150 1980

0459 LISSAUER,I.M., MURPHY,D.L. OIL SPILL FORECASTING WHERE IS IT GOING? $ US COAST GUARD RES AND DEV CENT GROTON CONN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 649-652 1979

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

0904 HAMMOND,K.A.G. ENVIRONMENTAL ASPECTS OF POTENTIAL PETROLEUM EXPLORATION AND EXPLOITATION IN ANTARCTICA: FORECASTING AND EVALUATING RISKS $ MARINE MAMMAL COMMISSION WASHINGTON,D.C. PB82-169772 34P. 1982

FORMAT
0582 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1979 $ PB-81-108615 122P. 1980

0583 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1980 $ PB-81-156978 52P. 1980

FORMATION
0060 BELASH,V.D., FEDOTOV,M.N. FORMATION OF LOCAL EXPLOSION HAZARDOUS PROPANE-AIR MIXTURES $ LENINGR FILIAL USES NAUCHNO-ISSLED INST PROTIVOPOZHARNO OBORONY LENINGRAD GAZOV PROM-ST (8) P. 55-7 1980

0108 BRIDIE,A.L., WANDERS,TH.H., ZEGVELD,W., VAN DER HEIJDE,H.B. FORMATION PREVENTION AND BREAKING OF SEA WATER IN CRUDE-OIL EMULSIONS "CHOCOLATE-MOUSSES" $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

0259 FERGUSON,J.D. FORMATION OF DIAGENETIC ALTERATION ZONES BY LEAKING RESERVOIR HYDROCARBONS OVER 3 OIL-FIELDS IN OKLAHOMA $ GULF OIL EXPLORAT AND PROD CO HOUSTON TX AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (5) 924P. 1981

FORMATION
0423 LARSON,R.A., HUNT,L.L., BLANKENSHIP,D.W. FORMATION OF TOXIC PRODUCTS FROM A #2-FUEL-OIL BY PHOTOOXIDATION $ STROUD WATER RES CENT OF ACAD OF NAT SCI OF PHILADELPHIA AVONDALE ENVIRON SCI TECHNOL 11 (5) P. 492-496 1977

0686 RUCKENSTEIN,E., KRISHNAN,R. EFFECT OF ELECTROLYTES AND MIXTURES OF SURFACTANTS ON THE OIL-WATER INTERFACIAL-TENSION AND THEIR ROLE IN FORMATION OF MICRO-EMULSIONS $ SUNY BUFFALO FAC ENGN AND APPL SCI BUFFALO NY JOURNAL OF COLLOID AND INTERFACE SCIENCE 76 (1) P. 201-211 1980

0925 MAGEE,R.G., HANNAH,R.P. IXTOC-I OIL SPILL AN EXAMPLE OF TAR-BALL FORMATION TRANSPORT AND FATE $ ENG LAB COMPUTER SCI CORP NSTL STATION MISS J MISS ACAD SCI 26 (0) P. 22-27 1981

0996 WIDAYAT,K.P., MUERDOKO,W., WINIATI,W., HAGIWAKA,K. HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP III FORMATION AND EVALUATION OF THE NATURAL SORBENTS $ OSAKA IND RES INST OSAKA JAPAN OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (4) P. 269-75 1981

FORMULATION
0866 CANEVARI,G.P. THE FORMULATION OF AN EFFECTIVE DEMULSIFIER FOR OIL SPILL EMULSIONS $ EXXON RES ENG CO FLURHAM PARK NJ MAR POLLUT BULL 13 (2) P. 49-54 1982

FORTIER,S.H
0356 HUFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

FOSSIL-FUEL
0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MULHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

FOSTER,D.M
0272 FOSTER,D.M., SCHWARTZ,S.M., SMITH,G.F. A STATISTICAL EVALUATION OF OHMSETT TESTING $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-226128 39P. 1981

FOUR-CORNERS
0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

FOUREMAN,G.L
0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

FOUTCH,R
0805 WENTSEL,R.S., JONES,W.E. III, FOUTCH,R., WILKINSON,M., KITCHENS,J.F. ACCELERATED RESTORATION OF SPILL DAMAGED LANDS $ ATLANTIC RES CORP ALEXANDRIA VA CONTROL HAZARD WATER SPILLS PROC NATL CONF P. 99-102 1980

FOWLER,B
1062 GREEN,D., HUMPHREY,B., FOWLER,B. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY: PACIFIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-36 OTTAWA ONTARIO 1982

FOX,J.P
0273 FOX,J.P. WATER RELATED IMPACTS OF IN-SITU OIL-SHALE PROCESSING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 350P. 1980

FOY,M.G
1018 FOY,M.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-3 OTTAWA ONTARIO 1982

FRACTION
0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BOECKOSIMUS-(ONUSIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

0384 JOHNS,D.M., PECHENIK,J.A. INFLUENCE OF THE WATER-ACCOMMODATED FRACTION OF NO.-2-FUEL-OIL ON ENERGETICS OF *CANCER-IRRORATUS* LARVAE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT, RI PB-81-185720 10P. 1981

0407 KLEIN,S.A., JENKINS,D. QUANTITATIVE AND QUALITATIVE ANALYSIS OF THE WATER SOLUBLE FRACTION OF JET-FUELS $ UNIV OF CALIF BERKELEY WATER RES 15 (1) P. 75-82 1981

0482 KORDLYOV,A.M., SYOMINA,I.K., NAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ NV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

0640 PEARSON,W.H., MILLER,S.E., BLAYLOCK,J.W., OLLA,B.L. DETECTION OF THE WATER SOLUBLE FRACTION OF CRUDE-OIL BY THE BLUE-CRAB CALLINECTES-SAPIDUS $ BATTELLE PAC NORTHWEST LAB MAR RES LAB SEQUIM WASH MAR ENVIRON RES 5 (1) P. 3-12 1981

0909 MENSON,J.M., MAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

FRACTION
0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

FRACTIONATION
0349 HEWITT,J.D., ROGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 9P. 1980

FRACTIONS
0205 CULLI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB "EURYPANOPEUS-DEPRESSUS" $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203508 9P. 1979

0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

0652 POPP,W. CONCERNING THE BACTERIAL TOXICITY OF MINERAL OIL FRACTIONS AND HYDRO-CARBONS $ BAYER LANDESANSTALT F WASSERFORSCH MUENCHEN GER 0 (0) P. 301-312 1978

0789 VASHCHENKO,M.A. THE EFFECT OF WATER-SOLUBLE HYDROCARBON FRACTIONS OF DIESEL-FUEL ON THE DEVELOPMENT OF GAMETES AND QUALITY OF THE OFFSPRING IN THE SEA-URCHIN STRONGYLOCENTROTUS-NUDUS $ ACAD SCI USSR BIULUGIYA MORYA-MARINE BIOLOGY (4) 68P. 1980

0881 ELLENTON,J.A., HALLETT,D.J. MUTAGENICITY AND CHEMICAL ANALYSIS OF ALIPHATIC AND AROMATIC FRACTIONS OF PRUDHOE-BAY CRUDE-OIL AND FUEL-OIL-NO-2 $ DEPT ENVIRONM DIV WILDLIFE TOXICOL NATL WILDLIFE RES CTR OTTAWA CANADA JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 959-972 1981

0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

FRACTIONS
0983 SULANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND TRINECTES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MS JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

FRAME,G.M
0892 FRAME,G.M., FLANIGAN,G.A., CHAMBERLAIN,C.P. CLEANUP PROCEDURE FOR CONTAMINATED OILS PRIOR TO FINGERPRINTING BY GAS-CHROMATOGRAPHY AND INFRARED-SPECTROSCOPY $ US COAST GUARD CTR RES AND DEV GROTON CT BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 29 (1) P. 29-36 1982

FRAMEWORK
0631 PAGE,T. A FRAMEWORK FOR UNREASONABLE RISK IN THE TOXIC SUBSTANCES CONTROL ACT (TSCA) $ CALTECH ENVIRONM QUAL LAB PASADENA CA ANNALS OF THE NEW YORK ACADEMY OF SCIENCES 363 P. 145-166 1981

FRANCE
0063 BELLIER,P. POLLUTION CONTROL IN FRANCE $ (LA LUITE CONTRE LA PULLUTION EN FRANCE) CENT DE DOC DE RECH D'EXP SUR LES POLLUT ACCID DES EAUX REV INST FR PET 35 (6) P. 981-992 1980

0213 DENHARTOG,C., JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON AN EELGRASS COMMUNITY AT ROSCOFF (FRANCE) WITH SPECIAL REFERENCE TO THE MOBILE BENTHIC FAUNA $ CATHOLIC UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 182-191 1980

0267 FLOCH,J.Y., DIOURIS,M. EFFECT OF AMOCO-CADIZ OIL SPILL ON PORTSALL (FRANCE) ALGAE: ECOLOGICAL SURVEY ON A VERY POLLUTED AREA $ INST ETUD MAR UNIV BRETAGNE OCCIDENT BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 381-91 1979

0279 FRIOCOURT,M.P., GOURMELUN,Y., BERTHOU,F., CUSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.K., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

FRANCE
0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

FRANCILLON,H
0970 RAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., MEUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

FRANK,U
0274 FRANK,U., STAINKEN,D., GRUENFELD,M. METHODS FOR THE SOURCE IDENTIFICATION AND QUANTIFICATION OF OIL POLLUTION $ EPA EDISON NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 323-331 1979

FRANKLIN,A.L
0275 FRANKLIN,A.L. TRECII: A COMPUTER PROGRAM FOR TRANSPORTATION RISK ASSESSMENT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 89P. 1980

0293 GEFFEN,C.A., FRANKLIN,A.L. ASSESSMENT OF THE RISK OF TRANSPORTING PROPANE BY TRUCK AND TRAIN $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 17P. 1979

FRANKLIN,F.L
1087 NORTON,M.G., FRANKLIN,F.L. FISHERIES RESEARCH TECHNICAL REPORT #57 $ MINISTRY OF AGRICULTURE FISHERIES AND FOOD LOWESTOFT 20P. 1980

FRANSON,J.C
0886 FLEMING,W.J., SILEO,L., FRANSON,J.C. TOXICITY OF PRUDHOE-BAY CRUDE-OIL TO SANDHILL CRANES $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD JOURNAL OF WILDLIFE MANAGEMENT 46 (2) P. 474-478 1982

FRASER
0257 PEELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

FRASER,J.P
0276 FRASER,J.P. OIL SPILL COUNTERMEASURES A RATIONAL SYSTEM FOR SELECTION AND SIZING OF EQUIPMENT $ SHELL OIL CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 253-255 1979

FRAZAR,J.M
0721 SILVUS,H.S. JR., NEWMAN,F.M., FRAZAR,J.M. DEVELOPMENT OF OIL-IN-WATER MONITOR PHASE II $ ENVIRONMENTAL MONITORING AND SUPPORT LAB CINCINNATI OHIO PB-80-226251 47P. 1980

FREE,A.P
0893 FREE,A.P., COX,J.C., SCHULTZ,L.A. LABORATORY STUDIES OF OIL SPILL BEHAVIOR IN BROKEN ICE FIELDS $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A114-178/7 63P. 1981

FREESTONE,F.J
0503 MCCRACKEN,M.F., CHARLTON,T.J., FREESTONE,F.J. OIL POLLUTION PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRON ASSESS COUNC INC NEW BRUNSWICK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 213-216 1979

FREIGHTER
0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

FRENCH
0152 BURKHALTER,R., MEYER,C., MASSIN,J.M. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN FRENCH COASTAL WATERS $ LAB NAIL ESSAIS PARIS FRANCE IN: COOK,J.J. PROCEEDINGS OF THE FOURTEENTH INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 3 VOLS P. 269-274 1980

FRENCHMAN
0718 SHINN,J.H., CEDERWALL,R.T. SELECTING OPTIMUM PERIODS FOR ATMOSPHERIC DISPERSION TESTS OVER WATER SURFACES AT FRENCHMAN FLAT NEVADA TEST SITE $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 12P. 1981

0719 SHINN,J.H. ENVIRONMENTAL ISSUES OF THE PROPOSED LNG SPILL TESTS AT FRENCHMAN FLATS: LNG WORKING GROUP REPORT NO. 1 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 16P. 1981

FREQUENCY
0614 OFFICE OF RADIATION PROGRAMS WASHINGTON, D.C. THE CONSEQUENCES AND FREQUENCY OF SELECTED MAN ORIENTED ACCIDENT EVENTS $ PB-80-211303 233P. 1980

FRESH
0244 ENGELHARDT,F.R., WONG,M.P., DUEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

FRESH

0710 SCOTT,B.F., NAGY,E., SHERRY,J.P., DUTKA,B.J., GLOOSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER $ NATL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

1040 MACKAY,D., PATERSON,S. THE PHYSICAL PROPERTIES OF FRESH AND WEATHERED CRUDE-OILS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-13 OTTAWA ONTARIO 1980

FRESH-WATER

0678 ROGERSON,A., BERGER,J. EFFECT OF CRUDE-OIL AND PETROLEUM DEGRADING MICROORGANISMS ON THE GROWTH OF FRESH-WATER AND SOIL PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO JOURNAL OF GENERAL MICROBIOLOGY 124 P. 53-59 1981

0908 HEDTKE,S.F., PUGLISI,F.A. SHORT-TERM TOXICITY OF 5 OILS TO 4 FRESH-WATER SPECIES $ US EPA ENVIRONMENTAL RES LAB DULUTH MN ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (4) P. 425-430 1982

FRESHWATER

0507 MCKENDRICK,J.D., LAPERRIER,J.D., LOYNACHAN,T.E. COLD CLIMATE OIL SPILLS: A TERRESTRIAL AND FRESHWATER RESEARCH REVIEW $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-159121 93P. 1981

1046 RESEARCH AND DEVELOPMENT DIVISION A BIBLIOGRAPHY ON FRESHWATER OIL SPILLS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-21 OTTAWA ONTARIO 1981

1088 NAGY,E., SCOTT,B.F., HART,J. THE FATE OF OIL AND DISPERSANT MIXTURES IN FRESHWATER ECOSYSTEMS $ NATIONAL WATER RESEARCH INSTITUTE ENVIRONMENT CANADA BURLINGTON ONTARIO 1980

FREW,N.M

0885 FARRINGTON,J.W., DAVIS,A.C., FREW,N.M., RABIN,K.S. NO-2-FUEL-OIL COMPOUNDS IN MYTILUS-EDULIS RETENTION AND RELEASE AFTER AN OIL SPILL $ WOODS HOLE OCEANOG INST DEPT CHEM WOODS HOLE MA MARINE BIOLOGY 66 (1) P. 15-26 1982

FREW,R.L

0057 BECCASIO,A.D., WEISSBERG,G.M., REDFIELD,A.E., FREW,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

FREY,J.M

0277 FREY,J.M. ENVIRONMENTAL IMPACTS OF OIL-SHALE WASTE DISPOSAL JANUARY 1976-JUNE 1980 (CITATIONS FROM THE ENERGY DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-852527 82P. 1980

FRILKE,A.M

0278 FRICKE,A.M., HENNIG,M., URREN,M.J. RELATIONSHIP BETWEEN OIL PULLUTION AND PSAMMOLITTORAL MEIOFAUNA DENSITY OF 2 SOUTH-AFRICAN BEACHES $ UNIV CAPE TOWN DEPT OF OCEANOG NATL RES INST OCEANOL ROONDEBOSCH SOUTH AFRICA MARINE ENVIRONMENTAL RESEARCH 5 (1) P. 59-77 1981

FRICKE,A.H

0345 HENNING,H.F.K.O., FRICKE,A.H. RECOVERY POTENTIAL AND CHRONIC OIL POLLUTION ON THE SOUTH-AFRICAN COAST $ UNIV CAPE TOWN NATL RES INST OCEANOL DEPT OCEANOG RONDEBOSCH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (10) P. 301-302 1960

FRIEDMAN,A.J

0114 BROWN,D.W., FRIEDMAN,A.J., PROHASKA,P.G., MACLEOD,W.D. JR. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND PART II (SECOND-YEAR CONTINUATION) $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-82-104290 46P. 1981

0115 BROWN,D.W., FRIEDMAN,A.J., BURROWS,D.G. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND $ NOAA NATIONAL ANALYTICAL FACILITY SEATTLE WA PB-80-123218 120P. 1979

FRINTROP,P

0403 KERKHOFF,M., FRINTROP,P., KOOPS,W. POLLUTION OF THE DUTCH COAST BY OIL FROM THE "ELENI-V" JULY 1978 $ NETH INST FOR FISH INVEST IJMUIDEN SCI TOTAL ENVIRON 19 (1) P. 33-39 1981

FRIOCOURT,M.P

0074 BERTHOU,F., GOURMELON,Y., DREANO,Y., FRIOCOURT,M.P. APPLICATION OF GAS-CHROMATOGRAPHY ON GLASS-CAPILLARY COLUMNS TO THE ANALYSIS OF HYDROCARBON POLLUTANTS FROM THE AMOCO-CADIZ OIL-SPILL $ FAC MED BREST CNRS SERV BIOCHIM CHROMATOG LAB EQUIPE RECH BP BREST FRANCE JOURNAL OF CHROMATOGRAPHY 203 P. 279-292 1981

0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., CUSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

0842 BERTHOU,F., FRIOCOURT,M.P. GAS-CHROMATOGRAPHIC SEPARATION OF DIA-STEREOMERIC-ISOPRENOIDS AS MOLECULAR MARKERS OF OIL POLLUTION $ LAB DE CHROMATOGRAPHIE SERVICE DE BIOCHIM BREST CEDEX FR

FRIPPEL,G

0012 ALVARADO,U.R., CHAFARIS,G., CHESTEK,J., CONTRAD,J., FRIPPEL,G. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: TECHNICAL VOLUME EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 464P. 1980

FRITHSEN,J

0962 OVIATT,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

FRYER,R.J
0260 FIELDER,G., TELFER,D.J., HALL,T.S., WILSON,L., FRYER,R.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD 22P. 1980

FT-LEWIS
0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

FUCOID-MACROALGAE
0773 TOPINKA,J.A., TUCKER,L.R. LONG-TERM OIL CONTAMINATION OF FUCOID-MACROALGAE FOLLOWING THE AMOCO-CADIZ OIL SPILL $ BIGELOW LAB OCEAN SCI MCKOWN POINT/WEST BOOTHBAY HARBOR ME AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 393-403 1979

FUEL-OIL
0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE COPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

0432 LEE,R.F., DORNSEIF,B., GONSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

0597 NEAL,J.D. SIMPLE METHOD FOR THE DIFFERENTIATION OF FUEL-OIL AND WEATHERED CRUDE-OIL POLLUTANTS $ LAB GOV CHEM LONDON ENGL ANALYST (LONDON) 106 (1260) P. 373-4 1981

FUEL-OIL-NO-2
0881 ELLENTON,J.A., HALLETT,D.J. MUTAGENICITY AND CHEMICAL ANALYSIS OF ALIPHATIC AND AROMATIC FRACTIONS OF PRUDHOE-BAY CRUDE-OIL AND FUEL-OIL-NO-2 $ DEPT ENVIRONM DIV WILDLIFE TOXICOL NATL WILDLIFE RES CTR OTTAWA CANADA JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 959-972 1981

FUGLUM,A
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

FUJISAWA,K
0959 OGATA,M., FUJISAWA,K., MIYAKE,Y. TRANSFER OF ORGANIC SULFUR COMPOUNDS IN PETROLEUM FROM CRUDE OIL SUSPENSION TO THE MUSSEL $ MED SCH OKAYAMA UNIV OKAYAMA JAPAN IGAKU TO SEIBUTSUGAKU 103 (3) P. 243-7 1981

FUNATANI,C
0281 FUNATANI,C. JAPANESE GOVERNMENTAL AND INDUSTRIAL MEASURES FOR THE CONTROL OF MARINE OIL SPILLS $ JPN MAR DISASTER PREV CENT TOKYU JAPAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 261-267 1979

FUNCTIONAL
0050 BALLERINI,D., KAISER,P., RIVIERE,J. QUANTITATIVE AND QUALITATIVE DEVELOPMENT OF SOME BACTERIAL FUNCTIONAL GROUPS IN SEDIMENTS POLLUTED BY OIL SPILLS $ INST FRANCAIS PETROLE RUEIL MALMAISON FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 269-77 1981

FUND
0058 BECK,D.A., MOELLER,P.J. IMPLEMENTATION OF THE OFFSHORE OIL POLLUTION FUND $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 11-15 1979

FUNDS
0413 KREINHEDER,J.R. COASTAL PROTECTION FUNDS: A COMPARATIVE ANALYSIS OF STATE AND FEDERAL OIL SPILL LAWS AND LEGISLATION $ ALASKA STATE LEGISLATURE HOUSE RESEARCH AGENCY JUNEAU PB-81-194581 62P. 1981

0729 SMALL,M.J., LAMBERT,W.P. A STOCHASTIC PROCEDURE FOR ALLOCATION OF FUNDS FOR TOXICOLOGICAL AND ENVIRONMENTAL RESEARCH ON THE BASIS OF HAZARD ASSESSMENT $ ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB FORT DETRICK MD AD-A091-688/2 8P. 1979

FUNDULUS-GRANDIS
0262 FINGERMAN,S.W. DIFFERENCES IN THE EFFECTS OF FUEL OIL AN OIL DISPERSANT AND THREE POLYCHLORINATED-BIPHENYLS ON FIN REGENERATION IN THE GULF COAST KILLIFISH FUNDULUS-GRANDIS $ TULANE UNIV NEW ORLEANS LA BULL ENVIRON CONTAM TOXICOL 25 (2) P. 234-240 1980

FUNGI
0204 CROW,S.A., AHEARN,D.G. DEGRADATION OF OIL BY YEAST AND FILAMENTOUS FUNGI IN ARCTIC ENVIRONMENTS $ GEORGIA STATE UNIV ATLANTA AD-A078-892/7 13P. 1979

FUNGUS
0748 STOERMER,F.C. A NEW HYDROCARBON DEGRADATION FUNGUS: VERTICILLIUM-ECANII $ NATL INST PUBLIC HEALTH OSLO NORWAY EUR J.APPL MICROBIOL BIOTECHNOL 10 (3) P. 259-60 1980

FURNACE-OIL
0287 GAUER,J.P., KUMAR,H.D. GROWTH RESPONSE OF FOUR MICRO-ALGAE TO THREE CRUDE-OILS AND A FURNACE-OIL $ BANARAS HINDU UNIV VARANASI INDIA ENVIRON POLLUT SER A 25 (1) P. 77-85 1981

FURUHOLT,E.M
0757 SVENDSEN,J.A., FURUHOLT,E.M. INTERACTIVE SIMULATION OF OIL SPILL RECOVERY OPERATIONS $ SHIP RES INST NORWAY TRONDHEIM NORWAY IN: AUNE,A.B., VLIETSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS P. 321-327 1980

FURZER,I.A
0280 FURZER,I.A. DISTRIBUTION OF OIL POLLUTION RESIDUES $ UNIV OF SYDNEY AUST ASCE J ENVIRON ENG DIV 106 (6) P. 1171-1189 1980

FUSEY,P
0626 DUDUT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

0627 DUDUT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL $ LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

FUSION
0381 JAPAN ATOMIC ENERGY RESEARCH INST TOKYO SAFETY ANALYSIS OF FUEL CIRCULATING SYSTEM FOR TOKAMAK EXPERIMENTAL FUSION REACTOR $ 161P. 1978

FUSSELL,D.R
0282 FUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE HAGUE NETH CONCAWE REP (7) 155P. 1981

1112 FUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE 1981

FUTURE
0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

0286 GARRETT,J.M. ARCTIC ALASKA AND ICEBREAKING: AN ASSESSMENT OF FUTURE REQUIREMENTS FOR THE UNITED STATES COAST GUARD $ NAVAL POSTGRADUATE SCHOOL MONTEREY CA AD-A100-990/1 189P. 1981

0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LMW HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

GABUR,T
0283 GABUR,T., GRIFFITH,T.K. ASSESSMENT OF COMMUNITY VULNERABILITY TO ACUTE HAZARDOUS MATERIALS INCIDENTS $ OHIO STATE UNIV COLUMBUS J HAZARD MATER 3 (4) P. 323-333 1980

GAILL,F

0626 DUDOIT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

0627 DUDOIT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL $ LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

GAINESVILLE

0269 FLORIDA UNIV GAINESVILLE DEPT OF ZOOLOGY THE DISSEMINATION AND COMBUSTION OF UNCONFINED LIQUEFIED-NATURAL-GAS CLOUDS $ AD-A089-315/6 59P. 1979

GALLAWAY,B.J

0284 GALLAWAY,B.J. AN ECOSYSTEM ANALYSIS OF OIL AND GAS DEVELOPMENT ON THE TEXAS-LOUISIANA CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-247131 100P. 1981

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

0518 MIDDLEDITCH,B.S., GALLAWAY,B.J. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY PROLOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 1-14 1981

GALT,J

0396 KARPEN,J., GALT,J. MODELING OF OIL MIGRATION IN PUGET-SOUND $ SCI APPL INC RALEIGH NC ANNU COMB CONF OF IEEE (COUNC ON OCEANIC ENG) AND MAR TECHNOL SOC SAN DIEGO 1979

GALVESTON-BAY

0995 WEBB,J.W., TANNER,G.T., KOERTH,B.H. OIL SPILL EFFECTS ON SMOOTH CORDGRASS IN GALVESTON-BAY TEXAS $ TEXAS A AND M UNIV DEPT RANGE SCI COLLEGE STN TX CONTRIBUTIONS IN MARINE SCIENCE 24 P. 107-114 1981

GAMETES
0789 VASHCHENKO,M.A. THE EFFECT OF WATER-SOLUBLE HYDROCARBON FRACTIONS OF DIESEL-FUEL ON THE DEVELOPMENT OF GAMETES AND QUALITY OF THE OFFSPRING IN THE SEA-URCHIN STRONGYLOCENTROTUS-NUDUS $ ACAD SCI USSR BIOLOGIYA MORYA-MARINE BIOLOGY (4) 6PP. 1980

GAMMA-ABSORPTION
0066 BELOUS,A.R., NOVIKOV,V.I., IZOTOV,V.I. DETERMINATION OF TEL CONTENT IN GASOLINES BY GAMMA-ABSORPTION METHOD $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 913-914 1979

GARCIA,L.L
0360 HOLLAND,L.M., SPALL,W.D., GARCIA,L.L., ROM,W.N. (ED), ARCHER,V.E. (ED) INHALATION TOXICOLOGY OF OIL-SHALE RELATED MATERIALS $ LOS ALAMOS SCI LAB UNIV CALIFORNIA LOS ALAMOS NM HEALTH IMPLIC NEW ENERGY TECHNOL (PARK CITY ENVIRON HEALTH CONF) P. 515-26 1979

GARDEN
0677 ROGERSON,A., BERGER,J. THE EFFECTS OF COLD TEMPERATURES AND CRUDE-OIL ON THE ABUNDANCE AND ACTIVITY OF PROTOZOA IN A GARDEN SOIL $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CANADIAN JOURNAL OF ZOOLOGY 59 (8) P. 1554-1560 1981

GARLAND,T.R
0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

GARNER-PRICE,S
0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

0695 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S. LONG-TERM EFFECTS OF THE BARGE FLORIDA OIL SPILL $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-144792 225P. 1981

GARNETT,M.J
0810 WHITE,I.C., NICHOLS,J.A., GARNETT,M.J. TEN YEAR OVERVIEW OF OIL SPILL CLEAN-UP AT SEA $ POLLUT FED LTD LONDON ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 247-251 1979

GAROFALO,G.C
0623 ORDZIE,C.J., GAROFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

GARRETT,J.M
0286 GARRETT,J.M. ARCTIC ALASKA AND ICEBREAKING: AN ASSESSMENT OF FUTURE REQUIREMENTS FOR THE UNITED STATES COAST GUARD $ NAVAL POSTGRADUATE SCHOOL MONTEREY CA AD-A100-990/1 189P. 1981

GARRIGUES,P
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

GARRITY,P.A
0307 GOODIER,J.L., SICLARI,R.J., GARRITY,P.A. FUEL CONSERVATION BY THE APPLICATION OF SPILL PREVENTION AND FAILSAFE ENGINEERING: A GUIDELINE MANUAL $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 332P. 1981

GARSHELIS,D.L
0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

GAS-CHROMATOGRAPHIC
0040 AWAD,H. COMPARATIVE STUDIES ON ANALYTICAL METHODS FOR THE ASSESSMENT OF PETROLEUM CONTAMINATION IN THE MARINE ENVIRONMENT II GAS-CHROMATOGRAPHIC ANALYSES $ FAC SCI UNIV ALEXANDRIA ALEXANDRIA EGYPT MAR CHEM 10 (5) P. 417-30 1981

0358 HUFFMAN,E.J., QUINN,J.G. GAS-CHROMATOGRAPHIC ANALYSES OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS AT THE WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231524 7P. 1981

0682 KUSAHL,N., ECKNIG,W. GAS-CHROMATOGRAPHIC METHOD FOR DETERMINATION OF RESIDUAL OIL AFTER OIL SEPARATORS IN COMPRESSOR INSTALLATIONS $ VEB KUHLAUTOMAT BERLIN GER CHEMISCHE TECHNIK 32 (11) P 589-593 1980

0642 BERTHOU,F., FRIOCOURT,M.P. GAS-CHROMATOGRAPHIC SEPARATION OF DIA-STEREOMERIC-ISOPRENOIDS AS MOLECULAR MARKERS OF OIL POLLUTION $ LAB DE CHROMATOGRAPHIE SERVICE DE BIOCHIM BREST CEDEX FR

GAS-CHROMATOGRAPHY
0074 BERTHOU,F., GOURMELON,Y., DREANO,Y., FRIOCOURT,M.P. APPLICATION OF GAS-CHROMATOGRAPHY ON GLASS-CAPILLARY COLUMNS TO THE ANALYSIS OF HYDROCARBON POLLUTANTS FROM THE AMOCO-CADIZ OIL-SPILL $ FAC MED BREST CNRS SERV BIOCHIM CHROMATOG LAB EQUIPE RECH BP BREST FRANCE JOURNAL OF CHROMATOGRAPHY 203 P. 279-292 1981

GAS-CHROMATOGRAPHY
U206 CUEVAS,P.A., FLORES,R.G.C., CASTELLANOS,T.R. GAS-CHROMATOGRAPHY AS A TECHNIQUE FOR OIL SPILL SOURCE IDENTIFICATION $ CROMATOGRAFIA DE GAS COMO TECNICA PARA LA IDENTIFICACION DE FUENTES DE DERRAME DE CRUDO INST MEX DEL PET MEXICO CITY REV INST MEX PET 12 (4) P. 30-41 1980

U892 FRAME,G.M., FLANIGAN,G.A., CHAMBERLAIN,C.P. CLEANUP PROCEDURE FOR CONTAMINATED OILS PRIOR TO FINGERPRINTING BY GAS-CHROMATOGRAPHY AND INFRARED-SPECTROSCOPY $ US COAST GUARD CTR RES AND DEV GROTON CT BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 29 (1) P. 29-36 1982

GAS-OIL
U772 TOPHAM,D.R. DISPOSITION OF GAS-OIL MIXTURES TRAPPED UNDER ICE $ INST OF OCEAN SCI SIDNEY BC CAN J PHYS 58 (8) P. 1183-1190 1980

GAS-PIPELINE
U102 BONFIGLIOLI,G. CONTROL OF GAS-PIPELINE AND OIL PIPELINE NETWORKS $ ELETTROTECNICA 67 (13) P. 969-974 1980

GASEOUS
U112 BROOKS,J.M., WIESENBURG,D.A., BURKE,R.A. JR., KENNICUTT,M.C. GASEOUS AND VOLATILE HYDROCARBON INPUTS FROM A SUBSURFACE OIL SPILL IN THE GULF OF MEXICO $ DEP OCEANOGR TEXAS A AND M UNIV COLLEGE STATION TX ENVIRON SCI TECHNOL 15 (8) P. 951-9 1981

U236 DEPARTMENT OF ENERGY, WASHINGTON, D.C. LIQUEFIED GASEOUS FUELS SAFETY AND ENVIRONMENTAL CONTROL ASSESSMENT PROGRAM: SECOND STATUS REPORT $ 229P. 1980

GASES
U386 JOHNSON,I., MYLES,K.M., SICZEK,A.A. SAMPLING AND ANALYSIS OF HYDROCARBONS IN COMBUSTION GASES QUARTERLY REPORT APRIL-JUNE 1980 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1980

GASOLINE
U221 DIMUCK,C.W., LAKE,J.L., NORWOOD,C.B., BOWEN,R.D., HOFFMAN,E.J. FIELD AND LABORATORY METHODS FOR INVESTIGATING A MARINE GASOLINE SPILL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-185712 5P. 1981

U296 GEORGAKIS,C., CONGALIDIS,J., WILLIAMS,G.C. MODEL FOR NON-INSTANTANEOUS LNG AND GASOLINE SPILLS $ MIT CAMBRIDGE MASS FUEL 58 (2) P. 113-120 1979

U593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

U604 NORTON,R.L., SAKAIDA,R.R., YAMADA,M.M. HYDROCARBON CONTROL STRATEGIES FOR GASOLINE MARKETING OPERATIONS $ ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PK NC PB-80-194632 128P. 1978

GASOLINE

0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

0903 GRISWOLD,C.A. THE BARGE OCEAN 250 GASOLINE SPILL $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-176488 38P. 1981

0993 VERWEIJ,A. POLLUTION OF THE SOIL BY AVIATION GASOLINE $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON,D.C. 26P. 1979

GASOLINES

0066 BELOUS,A.R., NOVIKOV,V.I., IZOTOV,V.I. DETERMINATION OF TEL CONTENT IN GASOLINES BY GAMMA-ABSORPTION METHOD $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 913-914 1979

GASSMANN,G

0321 GUNKEL,W., GASSMANN,G. OIL DISPERSANTS AND RELATED SUBSTANCES IN THE MARINE-ENVIRONMENT $ BIOL ANSTALT HELGOLAND MEERESSTN HELGOLAND GER HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 164-181 1980

GASTROPOD

0839 BATTERSHILL,C.N., BERGQUIST,P.R. RESPONSES OF AN INTER-TIDAL GASTROPOD TO FIELD EXPOSURE OF AN OIL AND A DISPERSANT $ UNIV AUCKLAND DEPT ZOOL AUCKLAND NEW ZEALAND MARINE POLLUTION BULLETIN 13 (5) P. 159-162 1982

GATELLIER,C

0203 CROQUETTE,J., GATELLIER,C. USE OF BEACH CLEANING- AGENTS AND THEIR EFFECTS ON OIL SPILLS $ CEDRE BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 821-36 1979

GATES,J

0667 KEWICK,R.T., GATES,J., SMITH,J.H. SIMPLE TEST OF DISPERSANT EFFECTIVENESS BASED ON INTERFACIAL-TENSION MEASUREMENTS $ STANFORD RES INST INT MENLO PARK CALIF FUEL 59 (4) P. 263-265 1980

GAUER,J.P

0287 GAUER,J.P., KUMAR,H.D. GROWTH RESPONSE OF FOUR MICRO-ALGAE TO THREE CRUDE-OILS AND A FURNACE-OIL $ BANARAS HINDU UNIV VARANASI INDIA ENVIRON POLLUT SER A 25 (1) P. 77-85 1981

GAUTIER,R

0683 ROUSSEL,J.C., GAUTIER,R. AGEING OF ARABIAN LIGHT CRUDE-OIL IN SEAWATER PHYSICOCHEMICAL CHARACTERS DURING SIX MONTHS $ INST FRANCAIS PETROLE RUEIL MALMAISON FRANCE AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 135-47 1979

GAUVIN,C.A

0222 DOHERTY,C.B., GAUVIN,C.A., MARCOLINI,R.A., OBRIEN,J.L. OPEN OCEAN POLLUTION RESPONSE THE COAST GUARD SYSTEM $ US COAST GUARD OFFSHORE TECHNOL CONF 12TH ANNU PROC 1 P. 245-253 1980

GC-MS
0224 DUNTY,B.J., BROWN,J.W., STONE,F.W., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

GEALER,R.L
0288 GEALER,R.L., GOLOVOY,A., WEINTRAUB,M.H. ELECTROLYTIC TREATMENT OF OILY WASTEWATER FROM MANUFACTURING AND MACHINING PLANTS $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-225113 59P. 1980

GEARING,J
0962 UVIATI,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

GEARING,J.N
0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

0896 GEARING,P.J., GEARING,J.N. BEHAVIOR OF NO-2-FUEL-OIL IN THE WATER COLUMN OF CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 115-132 1982

0897 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

GEARING,P
0962 UVIATI,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

GEARING,P.J
0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

0896 GEARING,P.J., GEARING,J.N. BEHAVIOR OF NO-2-FUEL-OIL IN THE WATER COLUMN OF CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 115-132 1982

GEARING,P.J
0891 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

GEE,T
0291 GEE,T., VANDERKOOY,N. DEVELOPMENT OF A NOVEL ICE OIL BOOM FOR FLOWING WATERS $ ENVIRON CAN BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 377-385 1979

GEFFEN,C.A
0292 GEFFEN,C.A. ASSESSMENT OF THE RISK OF TRANSPORTING PROPANE BY TRUCK AND TRAIN $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 211P. 1980

0293 GEFFEN,C.A., FRANKLIN,A.L. ASSESSMENT OF THE RISK OF TRANSPORTING PROPANE BY TRUCK AND TRAIN $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 17P. 1979

0294 GEFFEN,C.A. POTENTIAL SAFETY AND ENVIRONMENTAL CONCERNS IN PETROLEUM TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1979

GEHRS,C.W
0300 GIDDINGS,J.M., PARKHURST,B.R., GEHRS,C.W., MILLEMANN,R.E. TOXICITY OF A COAL LIQUEFACTION PRODUCT TO AQUATIC ORGANISMS $ OAK RIDGE NATL LAB TENN BULL ENVIRON CONTAM TOXICOL 25 (1) P. 1-6 1980

GEL-PERMEATION-CHROMATOGRAPHY
0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

GELLANTS
0044 BAHLOUL,S.K., DONATELLI,A.A., BANNISTER,W.W. GELLANTS FOR CONTROL OF PETROLEUM SPILLS ON WATER $ UNIV OF LOWELL MASS IND ENG CHEM PROD RES DEV 18 (4) P. 364-367 1979

GELLING-AGENTS
0051 BANNISTER,W.W., RANCOURT,J.D., CURBY,W.A. AMINE-CARBAMATE GELLING-AGENTS FOR FACILITATING OIL SPILL RECOVERY AND CONTROL $ DEP CHEM UNIV LOWELL LOWELL MA MAR TECHNOL SO (EIGHTY) ANNU CONF MAR TECHNOL SOC 16TH P. 146-9 1980

GEMICI,Y
0826 YOUNG,B.S., GEMICI,Y. FLOW MONITORING FOR LEAK DETECTION $ FOXBORO MUNICIPAL SALES INC FOXBORO MA INT INSTRUMENT SOC AMER ADVANCES IN INSTRUMENTATION 35 PT 1 P. 497-502 1980

GEOLOGICAL
0295 GEOLOGICAL SURVEY RESTON VA SAFETY AND OFFSHORE OIL $ PB-82-128042 350P. 1981

GEOMORPHOLOGY
1026 MCLAREN,P., BARRIE,W.B., SEMPELS,J.M. GEOMORPHOLOGY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-7 OTTAWA ONTARIO 1981

GEORGAKIS,C
0296 GEORGAKIS,C., CONGALIDIS,J., WILLIAMS,G.C. MODEL FOR NON-INSTANTANEOUS LNG AND GASOLINE SPILLS $ MIT CAMBRIDGE MASS FUEL 58 (2) P. 113-120 1979

GEORGE,A.E
0185 CHMIELOWIEC,J., BESHAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN ELDYMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

GEORGES-BANK
0093 BOEHM,P.D., STEINHAUER,W.G., FIEST,D.L., MOSESMAN,N., BARAK,J.E., PERRY,G.M. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON POLLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMBRIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

0197 CORNILLON,P.C., SPAULDING,M.L., HANSEN,K. OIL SPILL TREATMENT STRATEGY MODELING FOR GEORGES-BANK $ UNIV OF RI KINGSTON USA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 685-692 1979

GEORGHIOU,P.E
1056 GEORGHIOU,P.E. A STUDY OF THE MUTAGENICITY OF RESIDUE RESULTING FROM THE BURNING OF CRUDE-OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-29 OTTAWA ONTARIO 1982

GEORGIA
0432 LEE,R.F., DORNSEIF,B., GUNSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF CORDELLE GEORGIA EXPLOSION AND FIRE CORDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

GERACI,J.R
0297 GERACI,J.R., STAUBIN,D.J. OFFSHORE PETROLEUM RESOURCE DEVELOPMENT AND MARINE MAMMALS A REVIEW AND RESEARCH RECOMMENDATIONS $ UNIV GUELPH ONTARIO VET COLL DEPT PATHOL GUELPH ONT CANADA MARINE FISHERIES REVIEW 42 (11) P. 1-12 1980

GERGELY,Z
0117 BUDAY,P., SASS,L., TOROK,G., GERGELY,Z., SZAKACS,A., VORUS,I. MICROBIOLOGICAL DEGRADATION OF OIL POLLUTION OF SOILS $ HIGH PRESSURE RES INST SZASZHALOMBATTA HUNGARY ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE 27 (3) 258P. 1980

GERMAN

1063 GERMAN AND MILNE INC SUBSEA BLOWOUT CONTAINMENT SYSTEM CONCEPT ANALYSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-37 OTTAWA ONTARIO 1982

GETTER,C.D

0209 DAVIS,W.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

0298 GETTER,C.D., HAYES,M.O. THE COMPARATIVE SENSITIVITIES OF 5 UNITED-STATES ESTUARIES TO OIL AND HAZARDOUS MATERIALS SPILLS $ RES AND PLANNING INST COLUMBIA SC ESTUARIES 4 (3) 244P. 1981

0341 HAYES,M.O., GUNDLACH,E.R., GETTER,C.D. SENSITIVITY RANKING OF ENERGY PORT SHORELINES $ UNIV OF SC COLUMBIA PORTS '80 SPEC CONF NORFOLK VA P. 697-709 1980

GHZ

0913 JOHNSON,J.W., CROSWELL,W.F. CHARACTERISTICS OF 13.9 GHZ RADAR SCATTERING FROM OIL FILMS ON THE SEA SURFACE $ NASA LANGLEY RES CTR HAMPTON VA RADIO SCIENCE 17 (3) P. 611-617 1982

GIBSON,S.C

0299 GIBSON,S.C., LYSYJ,I. TECHNICAL ASSISTANCE MASS-SPECTROMETER OIL MONITORING SYSTEM $ ROCKWELL INTERNATIONAL NEWBURY PARK CA AD-A096-533/5 103P. 1980

GIDDINGS,J.M

0300 GIDDINGS,J.M., PARKHURST,B.R., GEHRS,C.W., MILLEMANN,R.E. TOXICITY OF A COAL LIQUEFACTION PRODUCT TO AQUATIC ORGANISMS $ OAK RIDGE NATL LAB TENN BULL ENVIRON CONTAM TOXICOL 25 (1) P. 1-6 1980

GIDEON,D.N

0301 GIDEON,D.N., PUTNAM,A.A. DISPERSION HAZARD FOR SPILLS OF LNG ON LAND AND ON WATER $ BATTELLE COLUMBUS LAB OHIO CRYOGENICS 17 (1) P. 9-15 1977

GIERE,O

0302 GIERE,O. THE IMPACT OF CRUDE-OIL AND OIL DISPERSANTS ON THE MARINE OLIGOCHAETE MARIONINA-SUBTERRANEA $ UNIV HAMBURG INST ZOOL HAMBURG GER CAHIERS DE BIOLOGIE MARINE 21 (1) P. 51-60 1980

GILL

0244 ENGELHARDT,F.R., WONG,M.P., DUEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

GILL
0609 NUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

GILL,S.D
0303 GILL,S.D., RYAN,W. ASSESSMENT OF THE ACW-400 OIL SKIMMER BY THE CANADIAN COAST GUARD FOR OIL SPILL COUNTERMEASURE OPERATIONS $ CAN COAST GUARD EMERG OTTAWA ONT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 497-499 1979

1091 GILL,S.D. THE SUFFIELD FIELD TRIAL OF AERIALLY APPLIED OIL SPILL DISPERSANTS $ PETROLEUM ASSOCIATION FOR CONSERVATION OF THE CANADIAN ENVIRONMENT OTTAWA CANADA 1981

GILLESPIE,J.W
0304 GILLESPIE,J.W. OCEAN PETROLEUM POLLUTION $ CIVIL ENGINEERING 50 (3) 44P. 1980

GILLS
0723 SIMPSON,K.W. ABNORMALITIES IN THE TRACHEAL GILLS OF AQUATIC INSECTS COLLECTED FROM STREAMS RECEIVING CHLORINATED OR CRUDE-OIL WASTES $ NEW YORK STATE DEPT HLTH DIV LABS AND RES ALBANY NY FRESHWATER BIOLOGY 10 (6) 581P. 1980

GIRALT,F
0305 GIRALT,F., MEDIR,M., MACKAY,D. OIL CONTAMINATION OF THE MEDITERRANEAN AND BEAUFORT SEAS TO CURE TO PREVENT OR TO NEGLECT $ UNIV BARCELONA FAC QUIM TARRAGONA DEPT QUIM TECN TARRAGONA SPAIN AFINIDAD 38 (373) P. 215-219 1981

GLACIER
0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

GLASS-CAPILLARY
0074 BERTHOU,F., GOURMELON,Y., DREANO,Y., FRIOCOURT,M.P. APPLICATION OF GAS-CHROMATOGRAPHY ON GLASS-CAPILLARY COLUMNS TO THE ANALYSIS OF HYDROCARBON POLLUTANTS FROM THE AMOCO-CADIZ OIL-SPILL $ FAC MED BREST CNRS SERV BIOCHIM CHROMATOG LAB EQUIPE RECH BP BREST FRANCE JOURNAL OF CHROMATOGRAPHY 203 P. 279-292 1981

GLASS,A.W
0898 GLASS,A.W., HORTON,B.R. "SLIKTRAK" COMPUTER SIMULATION OF SURFACE POLLUTION PROBLEMS ARISING FROM OFFSHORE OIL SPILLS $ SHELL INT PET MAATSCH THE HAGUE NETH PROC OF THE WORLD PET CONGR 10TH 5 P. 3-12 1980

GLOBAL-HOPE
0498 MATHENS,K.W. "GLOBAL-HOPE IS AGROUND" AN INCIDENT AT SALEM-SOUND $ FIRST COAST GUARD DIST BOSTON MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 127-132 1979

GLOUSCHENKO,V
0710 SCUTT,B.F., NAGY,E., SHERRY,J.P., DUTKA,B.J., GLOUSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER & MAIL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

GLUCOSE
0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MURITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS & OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MURITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS & OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

GLUTAMATE
0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MURITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS & OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MURITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS & OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

GNORIMOSPHAEROMA-OREGONENSIS
1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS & ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1980

GOA
0271 PONDEKAR,S.P., TOPGI,R.S., MORONHA,R.J. DISTRIBUTION OF PETROLEUM HYDROCARBONS IN GOA COASTAL WATERS & NATL INST OCEANOG GOA INDIA INDIAN JOURNAL OF MARINE SCIENCES 9 (4) P. 286-288 1980

GOAL
0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS & TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

GODEFROID,C

0638 PAUL,R., DELCARTE,E., TILMAN,J., GODEFROID,C. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF STREET TREES $ DEP BIOL VEG THEOR APPL FAC SCI AGRON ETAT GEMBLOUX BELG TRIB CEBEDEAU 33 (445) P. 547-53 1980

GODINEAU,J.C

0970 RAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., REUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

GUDJEN,H

0282 RUSSELL,D.R., GUDJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE HAGUE NETH CONCAWE REP (7) 155P. 1981

1112 RUSSELL,D.R., GUDJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE 1981

GOLUB,R.S

1129 GOLUB,R.S., MCSHEA,D.W. IMPLICATIONS OF THE IXTOC I BLOW-OUT AND OIL SPILL $ CENTER FOR SHORT-LIVED PHENOMENA WORLD INFORMATION SYSTEMS CAMBRIDGE MASSACHUSETTS 1980

GOLOVOY,A

0288 GEALER,R.L., GOLOVOY,A., WEINTRAUB,R.H. ELECTROLYTIC TREATMENT OF OILY WASTEWATER FROM MANUFACTURING AND MACHINING PLANTS $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-225113 59P. 1980

GOMULKA,E

0306 GOMULKA,E., RYBKA,J. POLYURETHANE RESINS AS OIL SURBENTS IN WASTEWATER TREATMENT $ POLYTECH INST WROCLAW INST ENVIRONM PROTECT ENGN WROCLAW POLAND IN: PAWLOWSKI,L. PHYSICOCHEMICAL METHODS FOR WATER AND WASTEWATER TREATMENT P. 193-203 1980

GONSOULIN,F

0432 LEE,R.F., DURNSEIF,B., GONSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

GOUDIER,J.L

0307 GOUDIER,J.L., SICLARI,R.J., GARRITY,P.A. FUEL CONSERVATION BY THE APPLICATION OF SPILL PREVENTION AND FAILSAFE ENGINEERING: A GUIDELINE MANUAL $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 332P. 1981

0899 GOUDIER,J.L., SICLARI,R.J. COMBUSTION: AN OIL SPILL MITIGATION TOOL PHASE II THE BURNING OF THE M/T BURMAH-AGATE (EX-DANALAND) $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 134P. 1981

GORDON,R.C

0207 CUMMINGS,B.A., GORDON,R.C. MICROBIOLOGICALLY MEDIATED MUTAGENIC ACTIVITY OF CRUDE-OIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-82-105131 302P. 1981

0741 SPARROW,E.B., DAVENPORT,C.V., GORDON,R.C. RESPONSE OF MICROORGANISMS TO HOT CRUDE-OIL SPILLS IN A SUBARCTIC TAIGA SOIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB COLLEGE ALASKA PB-80-217722 16P. 1978

GORHAM,A.H

0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCOLES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

GORITSKII,A.B

0599 NESTEROVA,M.P., ANUFRIEVA,N.M., GORITSKII,A.B., SHUTER,L.M., VERLINSKAYA,R.M. REMOVAL OF OIL POLLUTANTS FROM WATER BODIES BY MEANS OF HYDROPHOBIC SORBENTS $ WATER RESOUR 7 (4) P. 375-379 1980

GORSLINE,J

0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

GOSWANI,A.K

0309 GOSWANI,A.K. STABILITY OF OIL WATER EMULSIONS USING BINARY-MIXTURES OF PROTEIN AND SURFACTANT AS EMULSIFIERS $ KISHORI RAMAN COLL DEPT CHEM MATHURA INDIA ANNALI DI CHIMICA 69 (7-8) P. 389-397 1979

GOUILLOUD,M.R

0310 GOUILLOUD,M.R. OIL SLICKS ENVIRONMENTAL COMPENSATION $ UNIV PARIS FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 67-76 1981

GOULD,T.H

0019 ANGERMAN,C.L., BICKFORD,D.F., GOULD,T.H. JR., SMITH,P.K. SAFETY ANALYSIS REPORT FOR THE EXP-238-PUO-SUB-2-FUEL FORM FACILITY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 200P. 1977

GOURMELON,Y

0074 BERTHOU,F., GOURMELON,Y., DREANO,Y., FRIOCOURT,M.P. APPLICATION OF GAS-CHROMATOGRAPHY ON GLASS-CAPILLARY COLUMNS TO THE ANALYSIS OF HYDROCARBON POLLUTANTS FROM THE AMOCO-CADIZ OIL-SPILL $ FAC MED BREST CNRS SERV BIOCHIM CHROMATOG LAB EQUIPE RECH BP BREST FRANCE JOURNAL OF CHROMATOGRAPHY 203 P. 279-292 1981

GOURMELON,Y
0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., COSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

GUYAL,K.L
0869 CHAUHAN,K.J., GUYAL,K.L. HAZARDS AND REMEDY OF OIL SPILLS $ OIL AND NAT GAS COMM DEHRA DUN INDIA PROC OF THE WORLD PET CONGR 10TH 5 P. 31-37 1980

GRAHAM,D.E
0600 NEUSTADTER,E., WHITTINGHAM,K.P., GRAHAM,D.E. INTERFACIAL RHEOLOGICAL PROPERTIES OF CRUDE-OIL-WATER SYSTEMS $ PB RES CTR DIV NEW TECHNOL SUNBURY THAMES MIDDLESEX ENGLAND IN: SHAH, D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 307-326 1981

GRAHAM,D.J
0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

0450 LICHTE,H.W., BRESLIN,M.K., SMITH,G.F., GRAHAM,D.J., URBAN,R.W. PERFORMANCE TESTING OF FOUR SKIMMING SYSTEMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101353 92P. 1981

1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174402 1980

1131 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

GRAHL-NIELSEN,O
0312 GRAHL-NIELSEN,O., NESTRHEIM,K., WILHELMSEN,S. PETROLEUM HYDROCARBONS IN THE NORTH SEA $ INST OF MAR RES BERGEN-NORDNES NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 629-632 1979

GRASSLE,J.F
0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN NERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

GRASSLE,J.F

0695 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S. LONG-TERM EFFECTS OF THE BARGE FLORIDA OIL SPILL $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-144792 225P. 1981

0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P. HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

GRASSLE,J.P

0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN MERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P. HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

GRAVITY

0515 MEYERS,J.L. OIL WATER SEPARATION: GRAVITY PLATE SEPARATORS $ ENVIRON ENG LTD CEA CHEM ENG AUST CHE 5 (4) P. 36-38 1980-81

GRAVITY-FLOW

0774 TOTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CORDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

GRAY,L

0634 PARASHAR,S., STAPLETON,G., WORSFOLD,R., ONEIL,R., GRAY,L. ASSESSMENT OF SAR FOR OIL POLLUTION SURVEILLANCE IN THE ICE ENVIRONMENT $ REMOTEC APPLICAT INC ST JOHNS NEWFOUNDLAND IN: NORWEGIAN INST TECHNOL POAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 3 P. 99-123 1979

GREAT-LAKES

0401 KEILLOR,J.P. THE HAZARDS OF TANK SHIPS AND BARGES TRANSPORTING PETROLEUM PRODUCTS ON THE GREAT-LAKES $ UNIV WISCONSIN INST SEA GRANT MADISON WI COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 319-336 1980

GREEN,D

1062 GREEN,D., HUMPHREY,B., FOWLER,B. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY: PACIFIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-36 OTTAWA ONTARIO 1982

GREEN,D.R

1020 GREEN,D.R. CHEMISTRY 1 FIELD SAMPLING AND ENVIRONMENTAL CHEMISTRY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-1 OTTAWA ONTARIO 1981

GREENE,G.D
0314 GREENE,G.D., BRUDSKY,A.Z., CHARLES,M.E., MACKAY,D. USE OF DEFLECTORS FOR DEPLOYMENT OF OIL BOOMS IN RIVERS $ ESSO RESOUR CAN LTD CALGARY ALBERTA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 411-417 1979

GREENE,S.M
0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.M., CANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-18 1980

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.M. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

GREENLAND
0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

GREENLEY,W.B
0900 GREENLEY,W.B., BARTA,W.D., EDDINGER,R.T. LITERATURE REVIEW OF TOXICOLOGICAL PROPERTIES OF PETROLEUM AND COAL-DERIVED OIL PRODUCTS $ UNIV DELAWARE NEWARK DE FUEL PROCESSING TECHNOLOGY 6 (1) P. 9-25 1982

GREENVILLE
0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

GREGG,C.T
0901 GREGG,C.T., TIETJEN,G., HUTSON,J.Y. PRENATAL TOXICOLOGY OF SHALE-OIL RETORT WATER IN MICE $ UNIV CALIF LOS ALAMOS LOS ALAMOS NATL LAB LOS ALAMOS NM JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 795-804 1981

GRETNA
0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

GREVILLE
0398 KARYDIS,M. THE TOXICITY OF CRUDE-OIL FOR THE MARINE ALGA SKELETONEMA-COSTATUM (GREVILLE) CLEVE IN RELATION TO NUTRIENT LIMITATION $ DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE HYDROBIOLOGIA 85 (2) P. 137-143 1981

GRIFFITH,T.K

0283 GABOR,T., GRIFFITH,T.K. ASSESSMENT OF COMMUNITY VULNERABILITY TO ACUTE HAZARDOUS MATERIALS INCIDENTS $ OHIO STATE UNIV COLUMBUS J HAZARD MATER 3 (4) P. 323-333 1980

GRIFFITHS,R.P

0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MURITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

GRIMSHAW,T.W

0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

GRISWOLD,C.A

0903 GRISWOLD,C.A. THE BARGE OCEAN 250 GASOLINE SPILL $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-176488 38P. 1981

GRITSKOV,V.S

0418 KUZNETSOV,A., GRITSKOV,V.S., KHOMYAKOV,V.M., KUDINOV,Y. DISPERSION SYSTEM FOR PREPARING OIL-WATER EMULSIONS $ METALLURGIST 23 (7-8) P. 554-556 1979

GRIZEL,H

0318 GRIZEL,H., MICHEL,P., ABARNOU,A., GUEGAN,B. EFFECTS OF AMOCO-CADIZ OIL SPILL ON OYSTER CULTURES $ INST SCI TECH PECHES MARTIMES LA TRINITE/MER FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOG INT P. 715-26 1981

GROKHOTOV,V.A

0852 BOGDANOV,Y.M., BORISOV,V.V., GROKHOTOV,V.A., NAZUKOV,V.A. PREVENTION OF ACCIDENTAL BLOW-OUTS OF A FUEL IN UNDERGROUND RESERVOIRS $ VSES NAUCHNO-ISSLED INST ISPOL'Z GAZA NAR KHOZ MOSCOW USSR (SU) TRANSP KHRANENIE NEFTI NEFTEPROD (2) P. 20-4 1982

GROSE,P.L
0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

GROUND
0675 ROGERS,J.E., LI,S.W. MICROBIOLOGICAL ASPECTS OF THE GROUND DISPOSAL OF OIL-SHALE WASTES $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 7P. 1978

GROUND-WATER
0089 BLAIR,A.H. GROUND-WATER POLLUTION BY OIL PRODUCTS $ ANGLIAN WATER AUTH ENGL J INST WATER ENG SCI 34 (6) P. 557-569 1980

0103 BURKMANN,G., DIETRICH,P. INTERNATIONAL IAH SYMPOSIUM ON GROUND-WATER POLLUTION BY OIL HYDROCARBONS HELD AT PRAGUE 5-9 JUNE 1978 $ ZEITSCHRIFT FUR ANGEWANDTE GEOLOGIE 26 (5) P. 274-276 1980

0532 MUZIKAR,R. (ED) INTERNATIONAL SYMPOSIUM ON GROUND-WATER POLLUTION BY OIL HYDROCARBONS PROCEEDINGS 1978 $ INT SYMP ON GROUND WATER POLLUT BY OIL HYDROCARBONS PROC PRAGUE CZECH 1978

0554 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA GROUND-WATER POLLUTION 1964-JANUARY 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB-82-800129 186P. 1981

0768 THUNVIK,R., BRAESTER,C. MODELING OF GROUND-WATER FLOW AROUND OIL STORAGE CAVERNS $ ROYAL INST TECHNOL DEPT LAND IMPROVEMENT AND DRAINAGE STOCKHOLM SWEDEN APPLIED MATHEMATICAL MODELLING 4 (3) P. 225-227 1980

0796 VILLAUME,J.F., HERRE,B.H., VOYKIN,D.P. CLEANUP OF AN OIL SPILL INTO GROUND-WATER AT WILLIAMSPORT PENNSYLVANIA A CASE HISTORY $ PA POWER AND LIGHT CO ALLENTOWN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 501-505 1979

GROUND-WATERS
0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

GROUNDING
0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

GROUNDING

0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

GROUNDWATER

0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

0059 BECK,R., ABOBA,B., MILLER,D., KAKLINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

0230 DUFFY,J.J., PEAKE,E., MOHTADI,M.F. OIL SPILLS ON LAND AS POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION $ UNIV CALGARY CALGARY CANADA ENVIRON INT 3 (2) P. 107-20 1980

0774 TOTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CORDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

GROWTH

0287 GAUER,J.P., KUMAR,H.D. GROWTH RESPONSE OF FOUR MICRO-ALGAE TO THREE CRUDE-OILS AND A FURNACE-OIL $ BANARAS HINDU UNIV VARANASI INDIA ENVIRON POLLUT SER A 25 (1) P. 77-85 1981

0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

0482 MAHONEY,B.M., HASKIN,H.H. EFFECTS OF PETROLEUM HYDROCARBONS ON THE GROWTH OF PHYTOPLANKTON RECOGNISED AS FOOD FORMS FOR THE EASTERN OYSTER CRASSOSTREA-VIRGINIA-GMELIN $ RUTGERS STATE UNIV NEW BRUNSWICK NJ ENVIRON POLLUT SER A 22 (2) P. 123-132 1980

0688 RUGERSON,A., BERGER,J. EFFECT OF CRUDE-OIL AND PETROLEUM DEGRADING MICROORGANISMS ON THE GROWTH OF FRESH-WATER AND SOIL PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO JOURNAL OF GENERAL MICROBIOLOGY 124 P. 53-59 1981

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

0877 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 2 THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 287-294 1981

GRUENFELD,M
0274 FRANK,U., STAINKEN,D., GRUENFELD,M. METHODS FOR THE SOURCE IDENTIFICATION AND QUANTIFICATION OF OIL POLLUTION $ EPA EDISON NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 323-331 1979

GRUGER,E.H
0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

GUARD,H.E
0429 LAUGHLIN,R.B. JR., NG,J., GUARD,H.E. HORMESIS: A RESPONSE TO LOW ENVIRONMENTAL CONCENTRATIONS OF PETROLEUM HYDROCARBONS $ NAVAL BIOSCIENCES LAB OAKLAND CA AD-A097-079/8 4P. 1980

GUEGAN,B
0318 GRIZEL,H., MICHEL,P., ABARNOU,A., GUEGAN,B. EFFECTS OF AMOCO-CADIZ OIL SPILL ON OYSTER CULTURES $ INST SCI TECH PECHES MARITIMES LA TRINITE/MER FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOG INT P. 715-26 1981

GUENTHER,F.R
0819 WISE,S.A., CHESLER,S.N., HERTZ,H.S., MAY,W.E., GUENTHER,F.R. DETERMINATION OF TRACE LEVEL HYDROCARBONS IN MARINE BIOTA $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-126278 11P. 1980

0820 WISE,S.A., CHESLER,S.N., GUENTHER,F.R., HERTZ,H.S. HILPERT,L.R. INTERLABORATORY COMPARISON OF DETERMINATIONS OF TRACE LEVEL HYDROCARBONS IN MUSSELS $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-140253 6P. 1980

GUERIN,M
0006 AHO,H., GUERIN,M. OILY DEBRIS DISPOSAL PROBLEM IN MAINE $ DEP OF ENVIRON PROT AUGUSTA ME ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 36-61 1980

GUERIN,M.R
0354 HO,C.H., NA,C.Y., CLARK,B.R., GUERIN,M.R., RAO,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

0661 RAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HO,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

GUIDANCE
1122 ISANG,G. THEORETICAL STUDY FOR GUIDANCE OF MODEL STUDY OF SUBSEA BLOWOUT CONTAINMENT DEVICE $ ENVIRONMENTAL EMERGENCY BRANCH OTTAWA ONTARIO NORTH-TECH 1980

GUIDANCE

1135 ANONYMOUS GUIDANCE NOTES FOR THE CONSTRUCTION AND CLASSIFICATION OF OIL RECOVERY SHIPS $ LLOYD'S REGISTRY OF SHIPPING LONDON 1980

GUIDE

0057 BECCASIO,A.D., WEISSBERG,G.H., REDFIELD,A.E., FREW,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

0083 BISHOP,J.M., HARRIGAN,D., MELLO,V. P CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NUMBER 2 GULF OF MAINE/GEORGES BANK $ FEDERAL EMERGENCY MANAGEMENT AGENCY WASHINGTON, D.C. AD-A103-818/1 189P. 1981

0689 UNTERBERG,W., MOOREHEAD,K.M. GUIDE FOR SPILL PREVENTION CONTROL AND COUNTERMEASURE INSPECTORS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-115296 119P. 1981

0711 SEAWARD INTERNATIONAL INC FALLS-CHURCH VA OIL POLLUTION RESPONSE PLANNING GUIDE FOR EXTREME WEATHER $ AD-A079-714/2 238P. 1979

0815 WILLIAMS,D.C., HOM,K.B. ONSHORE IMPACTS OF OFFSHORE OIL: A USER'S GUIDE TO ASSESSMENT METHODS $ DEPARTMENT OF THE INTERIOR WASHINGTON, D.C. PB-82-103674 72P. 1979

1079 BISHOP,J.M. A CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NO 1 THE NEW-YORK BIGHT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON,D.C. 1980

GUIDELINE

0307 GOODIER,J.L., SICLARI,R.J., GARRITY,P.A. FUEL CONSERVATION BY THE APPLICATION OF SPILL PREVENTION AND FAILSAFE ENGINEERING: A GUIDELINE MANUAL $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 332P. 1981

GUIDELINES

0189 COMPTON,M. TERMINAL SAFETY GUIDELINES ESTABLISHED $ CARGO SUST INT 7 (6) P. 109, 111, 113, 115 1980

0246 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. ENVIRONMENTAL IMPACT GUIDELINES FOR NEW SOURCE PETROLEUM REFINERIES $ PB-82-123514 128P. 1981

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ TERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

1128 EYRES,A.R. GUIDELINES FOR THE DETERMINATION OF ATMOSPHERIC CONCENTRATIONS OF OIL MISTS $ CONCAVE 1981

GUILLEMOT

0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

GULF

0083 BISHOP,J.M., HARRIGAN,D., MELLO,V. P CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NUMBER 2 GULF OF MAINE/GEORGES BANK $ FEDERAL EMERGENCY MANAGEMENT AGENCY WASHINGTON, D.C. AD-A103-818/1 189P. 1981

0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

0112 BROOKS,J.M., WIESENBURG,D.A., BURKE,R.A. JR., KENNICUTT,M.C. GASEOUS AND VOLATILE HYDROCARBON INPUTS FROM A SUBSURFACE OIL SPILL IN THE GULF OF MEXICO $ DEP OCEANOGR TEXAS A AND M UNIV COLLEGE STATION TX ENVIRON SCI TECHNOL 15 (8) P. 951-9 1981

0136 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF NORTHEAST GULF OF ALASKA INTERIM SYNTHESIS REPORT $ PB-81-177883 298P. 1980

0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

0164 CARRANZAFRASER,J., SALGADO,M. PRELIMINARY RESULTS OF INVESTIGATIONS ON THE EFFECT OF THE IXTOC-I OIL SPILL ON THE ECOLOGY AND FISHERIES OF THE GULF OF MEXICO $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 33P. 1980

0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

0215 DEUTSCH,M., VOLLMERS,R.R., DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

0262 FINGERMAN,S.W. DIFFERENCES IN THE EFFECTS OF FUEL OIL AN OIL DISPERSANT AND THREE POLYCHLORINATED-BIPHENYLS ON FIN REGENERATION IN THE GULF COAST KILLIFISH FUNDULUS-GRANDIS $ TULANE UNIV NEW ORLEANS LA BULL ENVIRON CONTAM TOXICOL 25 (2) P. 234-240 1980

GULF

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

0378 JACKSON,W.B. ENVIRONMENTAL ASSESSMENT OF AN ACTIVE OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1977-1978 VOLUME II DATA MANAGEMENT AND BIOLOGICAL INVESTIGATIONS $ NATIONAL MARINE FISHERIES SERVICE GALVESTON TX PB-80-165970 799P. 1979

0460 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST WATER PORT FACILITIES STUDY APPENDIX A WESTERN GULF HYDROBIOLOGICAL ZONES $ AD-A091-404/4 154P. 1973

0461 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX D ADVERSE ENVIRONMENTAL EFFECTS $ AD-A091-406/9 96P. 1973

0462 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX B NORTH CENTRAL GULF HYDROBIOLOGICAL ZONES $ AD-A091-405/1 99P. 1973

0463 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY ENVIRONMENTAL ASSESSMENT $ AD-A091-403/6 94P. 1973

0516 MIDDLEDITCH,B.S. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME V HYDROCARBONS BIOCIDES AND SULFUR $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-178451 106P. 1980

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND E1-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0633 PAMATMAT,M.M. BENTHIC COMMUNITY METABOLISM ON THE CONTINENTAL SHELF OF THE NORTHERN GULF OF MEXICO $ AUBURN UNIV AL 8P. 1979

0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192429 63P. 1980

GULF

0727 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME III BACTERIOLOGY OF A GULF OF MEXICO GAS AND OIL FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192189 54P. 1980

0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCOLES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

0769 TILLERY,J.B. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME VIII TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192452 127P. 1980

0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

0858 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 1,2 AND 3 $ PB82-167784 218P. 1981

0859 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 4 AND 5 $ PB82-167792 210P. 1981

0860 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 6 AND 7 $ PB82-167800 522P. 1981

0861 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 8 $ PB82-167818 840P. 1981

0862 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME II $ PB82-167826 175P. 1981

0863 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME III EXECUTIVE SUMMARY $ PB82-167834 36P. 1981

GULF

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

0998 WIESENBURG,D.A., BODENNEC,G., BROOKS,J.M. VOLATILE LIQUID HYDROCARBONS AROUND A PRODUCTION PLATFORM IN THE NORTHWEST GULF OF MEXICO $ TEX A AND M UNIV COLLEGE STATION USA BULL ENVIRON CONTAM TOXICOL 27 (2) P. 167-174 1981

GUNDLACH,E.R

0209 DAVIS,W.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

0223 DOMERACKI,D.D., GUNDLACH,E.R., THEBEAU,L.C. COASTAL PLANNING FOR OFFSHORE PETROLEUM DEVELOPMENT $ RES PLANNING INST INC COLUMBIA SC AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (9) 1661P. 1981

0226 DOZOUVILLE,L., BERNE,S., GUNDLACH,E.R., HAYES,M.O. COASTAL MORPHOLOGY AND OIL SPILL POLLUTION THE AMOCO-CADIZ EXPERIENCE $ CTR OCEANOL BRETAGNE F-29273 BREST FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 557-571 1981

0227 D'OZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

0263 FINKELSTEIN,K., GUNDLACH,E.R. METHOD FOR ESTIMATING SPILLED OIL QUANTITY ON THE SHORELINE $ UNIV S CAROLINA DIV COASTAL RES COLUMBIA SC ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (5) P. 545-54 1981

0341 HAYES,M.O., GUNDLACH,E.R., GETTER,C.D. SENSITIVITY RANKING OF ENERGY PORT SHORELINES $ UNIV OF SC COLUMBIA PORTS '80 SPEC CONF NORFOLK VA P. 697-709 1980

0884 ERNST,W.D., GUNDLACH,E.R., THEBEAU,L.C., SAUD,J.L. SENSITIVITY OF COASTAL ENVIRONMENTS TO SPILLED OIL: SOUTHERN CAROLINA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-188061 47P. 1982

GUNKEL,W

0321 GUNKEL,W., GASSMANN,G. OIL DISPERSANTS AND RELATED SUBSTANCES IN THE MARINE-ENVIRONMENT $ BIOL ANSTALT HELGOLAND MEERESSTN HELGOLAND GER HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 164-181 1980

GUNN,C.A
0974 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-1 OIL SPILL ECONOMIC IMPACT STUDY VOLUME I $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217852 332P. 1982

0975 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-1 OIL SPILL ECONOMIC IMPACT STUDY VOLUME II EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA

GUPTA,R.S
0322 GUPTA,R.S., KUREISHY,T.W. PRESENT STATE OF OIL POLLUTION IN THE NORTHERN INDIAN OCEAN $ NATL INST OCEANOG DONA PAULA GOA DAMAN AND DIU INDIA MARINE POLLUTION BULLETIN 12 (9) P. 295-301 1981

GUSTIN,P
0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,D., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1980

HABERCOM,G.E
0323 HABERCOM,G.E. JR. SUPERTANKERS AND SUPERPORTS 1964-JUNE 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-812977 209P. 1980

0324 HABERCOM,G.E. JR. SUPERTANKERS AND SUPERPORTS 1970-JUNE 1980 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-812985 126P. 1980

0325 HABERCOM,G.E. JR. OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT 1976-JULY 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-814809 115P. 1980

0327 HABERCOM,G.E. JR. OFFSHORE PIPELINES (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-805328 124P. 1980

HABITAT
0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

HABITATS
0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., PELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

HACKBERRY
0764 TAYLOR,A. STRATEGIC PETROLEUM RESERVE WEST HACKBERRY OIL STORAGE CAVERN FIRE AND SPILL OF SEPTEMBER 21 1978: AN ENVIRONMENTAL ASSESSMENT FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 68OP. 1980

HAGIWARA,K
0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

0814 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP II THE EVALUATION OF OIL ABSORBABILITY OF NATURAL SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 29-35 1981

0996 WIDAYAT,K.P., MOERDOKO,W., WINIATI,W., HAGIWARA,K. HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP III FORMATION AND EVALUATION OF THE NATURAL SORBENTS $ OSAKA IND RES INST OSAKA JAPAN OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (4) P. 269-75 1981

HAIGH,D.H
0326 HALL,R.H., HAIGH,D.H., MARTIN,R.G., WAMPFLER,D.J. USE OF ABSORBENT (IMBIBING) POLYMERS IN SPILL CONTROL $ DOWN CHEM CO MIDLAND MICH 13TH LOSS PREV SYMP P. 170-174 1980

HAJIC,E
0249 ESTES,J.E., WILSON,M., HAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

HALDORSEN,J
0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KROGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

HALL,J.O
0328 HALL,J.O. INVESTIGATION OF CLEANING PROCEDURES FOR CONVERTING PETROLEUM TANKERS TO POTABLE WATER SERVICE $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A105-633/2 50P. 1981

HALL,R.E
0193 CUPPOLA,A., HALL,R.E. A RISK COMPARISON $ NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 90P. 1981

HALL,R.H
0326 HALL,R.H., HAIGH,D.H., MARTIN,R.G., MAMPFLER,D.J. USE OF ABSORBENT (IMBIBING) POLYMERS IN SPILL CONTROL $ DOWN CHEM CO MIDLAND MICH 13TH LOSS PREV SYMP P. 170-174 1980

HALL,T.S
0260 FIELDER,G., TELFER,D.J., HALL,T.S., WILSON,L., FRYER,R.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD 22P. 1980

HALLETT,D.J
0881 ELLENTON,J.A., HALLETT,D.J. MUTAGENICITY AND CHEMICAL ANALYSIS OF ALIPHATIC AND AROMATIC FRACTIONS OF PRUDHOE-BAY CRUDE-OIL AND FUEL-OIL-NO-2 $ DEPT ENVIRONM DIV WILDLIFE TOXICOL NATL WILDLIFE RES CTR OTTAWA CANADA JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 959-972 1981

0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

HAMBRICK,G.A
0329 HAMBRICK,G.A. III, DELAUNE,R.D., PATRICK,W.H. JR. EFFECT OF ESTUARINE SEDIMENT PH AND OXIDATION-REDUCTION POTENTIAL ON MICROBIAL HYDROCARBON DEGRADATION $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-128233 6P. 1980

HAMMOND,J.G
0662 RATH,R.J., MCKENZIE,J.H., CEBRON,E.J., HAMMOND,J.G. PUGET-SOUND TANKER SIZE OPTIMIZATION $ OCEANOGRAPHIC INST OF WASHINGTON SEATTLE AD-A102-495/7 222P. 1981

HAMMOND,K.A.G
0904 HAMMOND,K.A.G. ENVIRONMENTAL ASPECTS OF POTENTIAL PETROLEUM EXPLORATION AND EXPLOITATION IN ANTARCTICA: FORECASTING AND EVALUATING RISKS $ MARINE MAMMAL COMMISSION WASHINGTON,D.C. PB82-169772 34P. 1982

HAMPSON,G.R
0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

HAMPSON,G.R
0695 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S. LONG-TERM EFFECTS OF THE BARGE FLORIDA OIL SPILL $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-144792 225P. 1981

HAMSTERS
0797 VINEGAR,A., CARSON,A.I., PEPELKO,W.E. PULMONARY FUNCTION CHANGES IN CHINESE HAMSTERS EXPOSED SIX MONTHS TO DIESEL EXHAUST $ DEP ENVIRON HEALTH UNIV CINCINNATI OHIO PROC INT SYMP PB-81-13817 P. 749-56 1980

HANDLING
0362 HOLMES,P.D. PRACTICAL EXPERIENCES OF THE HANDLING AND DISPOSAL OF WATER-IN-OIL EMULSIONS $ BR PET CO LONDON ENGL ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 98-108 1980

HANN,R.W
0330 HANN,R.W. JR. UNIT OPERATIONS UNIT PROCESSES AND LEVEL OF RESOURCE REQUIREMENTS FOR THE CLEANUP OF THE OIL SPILL FROM THE SUPERTANKER AMOCO-CADIZ $ TEX A AND M UNIV COLLEGE STATION PROC - OIL SPILL CONF LOS ANGELES CALIF P. 147-161 1979

0331 HANN,R.W. JR. OIL POLLUTION STILL A PROBLEM FOR AMERICA'S PORTS $ TEX A AND M UNIV COLLEGE STATION PORTS '80 SPEC CONF NORFOLK VA P. 710-730 1980

1083 FICKLING,J.M. (JR.), HANN,R.W. (JR.) THE CHEMICAL TREATMENT OF OIL SPILLS THEORETICAL PRACTICAL AND PHILOSOPHICAL CONSIDERATIONS $ TEXAS A AND M UNIVERSITY 1980

HANNAH,R.P
0925 MAGEE,R.G., HANNAH,R.P. IXTOC-I OIL SPILL AN EXAMPLE OF TAR-BALL FORMATION TRANSPORT AND FATE $ ENG LAB COMPUTER SCI CORP NSTL STATION MISS J MISS ACAD SCI 26 (0) P. 22-27 1981

HANNAMAN,G.W
0264 FLEMING,K.N., SILADY,F.A., HANNAMAN,G.W. TREATMENT OF OPERATOR ACTIONS IN THE HTGR RISK ASSESSMENT STUDY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1979

HANNAN,D
0613 OFFEN,H.W., EHRENSPECK,H., MATUCK,C., HANNAN,D., STEFANI,R. OIL POLLUTION ABSTRACTS VOLUME 7 NUMBER 1 (JANUARY 1980-JUNE 1980) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-140493 355P. 1981

HANRAHAN,J
0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSWORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

HANSEN,C.A
0332 HANSEN,C.A., SANDERS,R.G. REMOVAL OF HAZARDOUS MATERIAL SPILLS FROM BOTTOMS OF FLOWING WATER[illegible]IES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-230922 113P. 1981

HANSEN,D.J
0905 HANSEN,D.J. THE RELATIVE SENSITIVITY OF SEA BIRD POPULATIONS IN ALASKA USA TO OIL SPILLS $ ALASKA OCS OFFICE BUREAU LAND MANAGEMENT ANCHORAGE ALASKA PROCEEDINGS OF THE 23RD ALASKA SCIENCE MEETING FAIRBANKS ALASKA USA 32 (0) P. 96-97 1981

HANSEN,K
0197 CORNILLON,P.C., SPAULDING,M.L., HANSEN,K. OIL SPILL TREATMENT STRATEGY MODELING FOR GEORGES-BANK $ UNIV OF RI KINGSTON USA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 685-692 1979

HANSEN,W.G
0333 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. DISPOSAL SYSTEMS FOR OIL RECOVERED FROM MARINE SPILLS $ SCS ENG LONG BEACH CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 15-28 1978

0334 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. OIL SPILL DEBRIS DISPOSAL HARDWARE SYSTEMS: METHODS FOR CONCEPTUALIZATION AND DEVELOPMENT $ SCS ENG LONG BEACH CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 507-513 1979

HANSON,R
0432 LEE,R.F., DORNSEIF,B., GONSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

HANSSON,S
1105 KINEMAN,J., ELMGREN,R., HANSSON,S. THE TSESIS OIL SPILL $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLORADO 1980

HARBOR
0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

0451 LICHTE,H.W. SKIMMING BARRIER PERFORMANCE EVALUATION: OFFSHORE VERSION AND HARBOR VERSION $ MASON AND HANGER-SILAS MASON CO LEONARDO NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 489-492 1979

0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

HARBORS
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

HARDWARE
0334 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. OIL SPILL DEBRIS DISPOSAL HARDWARE SYSTEMS: METHODS FOR CONCEPTUALIZATION AND DEVELOPMENT $ SCS ENG LONG BEACH CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 507-513 1979

HARLAND,R.C
1024 BUNCH,J.N., HARLAND,R.C., LALIBERTE,J. MICROBIOLOGY 1 EFFECTS OF OIL ON BACTERIAL ACTIVITY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-5 OTTAWA ONTARIO 1981

HARMON,J.P
0161 CARD,J.C., COJEEN,H.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-711/3 174P. 1979

HARRIGAN,D
0083 BISHOP,J.M., HARRIGAN,D., MELLO,V. P CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NUMBER 2 GULF OF MAINE/GEORGES BANK $ FEDERAL EMERGENCY MANAGEMENT AGENCY WASHINGTON, D.C. AD-A103-818/1 189P. 1981

HARRIS,G.E
0654 PROVOST,L.P., WETHEROLD,R.G., HARRIS,G.E., HOOPER,M.W., PHILLIPS,W.R. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 4 APPENDICES C, D AND E $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-103830 529P. 1980

HARRIS,G.W
1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

HARRISON,E.A
0335 HARRISON,E.A. BIODETERIORATION OF OIL SPILLS (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-803919 138P. 1980

0336 HARRISON,E.A. THE BIOLOGICAL EFFECTS OF SPILLS VOLUME 2 1978-MARCH 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-806821 136P. 1980

HARRISON,E.A

0337 HARRISON,E.A. THE BIOLOGICAL EFFECTS OF OIL SPILLS (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-806839 240P. 1980

HARRISON,P

1067 BRASSARD,C., HARRISON,P., KWAMENA,F.A., WRIGHT,D. ONSHORE IMPACTS OF OFFSHORE HYDROCARBON DEVELOPMENT AN ANNOTATED BIBLIOGRAPHY $ ENVIRONMENT CANADA OTTAWA ONTARIO 1981

HART,J

1088 NAGY,E., SCOTT,B.F., HART,J. THE FATE OF OIL AND DISPERSANT MIXTURES IN FRESHWATER ECOSYSTEMS $ NATIONAL WATER RESEARCH INSTITUTE ENVIRONMENT CANADA BURLINGTON ONTARIO 1980

HARTMANN,B

0338 HARTMANN,B., STEINVALL,O., WIDEN,A. TESTS OF LASER INDUCED FLUORESCENCE FROM ALGAE AT SEA $ LASERINDUCERAD FLUORESCENS FRAAN ALGER RESULTAT FRAAN ETT BAATBUR RESEARCH INST OF NATIONAL DEFENCE STOCKHOLM (SWEDEN) 52P. 1979

HARTY,B

0508 MCLACHLAN,A., HARTY,B. EFFECTS OF OIL ON WATER FILTRATION BY EXPOSED SANDY BEACHES $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 12 (11) P. 374-378 1981

HARTZBAND,D.J

0099 BOESCH,D.F., HARTZBAND,D.J., ELLISON,R.L. MIDDLE ATLANTIC OUTER CONTINENTAL SHELF ENVIRONMENTAL STUDIES VOLUME IIB CHEMICAL AND BIOLOGICAL BENCHMARK STUDIES $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-174765 562P. 1979

HARWOOD,L.A

1014 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF DISPERSED OIL ON AN ESTUARINE ISOPOD $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-1 OTTAWA ONTARIO 1982

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1980

HASHIMOTO,S

0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

HASKIN,H.H

0482 MAHONEY,B.M., HASKIN,H.H. EFFECTS OF PETROLEUM HYDROCARBONS ON THE GROWTH OF PHYTOPLANKTON RECOGNISED AS FOOD FORMS FOR THE EASTERN OYSTER CRASSOSTREA-VIRGINIA-GMELIN $ RUTGERS STATE UNIV NEW BRUNSWICK NJ ENVIRON POLLUT SER A 22 (2) P. 123-132 1980

HATCHABILITY
0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

HAUER,E
0339 HAUER,E. BIAS-BY-SELECTION: OVERESTIMATION OF THE EFFECTIVENESS OF SAFETY COUNTERMEASURES CAUSED BY THE PROCESS OF SELECTION FOR TREATMENT $ UNIV OF TORONTO ONT ACCID ANAL PREV 12 (2) P. 113-117 1980

HAUSER,J.N
0340 HAUSER,J.N., BAIRD,R. SYSTEM TO PREDICT OFFSHORE DRILLING HAZARDS $ ODOM OFFSHORE SURV INC BATON ROUGE LA PET ENG INT 51 (8) P. 46, 50, 52, 56 1979

HAWAII
0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

HAWKES,J.W
0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

HAWKINS,H.L
0194 CORFIELD,M.M., HAWKINS,H.L., JOHN,P., SOUTAR,I. ASSESSMENT OF PHOSPHORESCENCE-SPECTROSCOPY FOR CRUDE-OIL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ANALYST (LONDON) 106 (1259) P. 188-97 1981

HAYASAKA,S.S
0909 HENSON,J.M., HAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

HAYES,M.O
0209 DAVIS,W.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

0226 DUZOUVILLE,L., BERNE,S., GUNDLACH,E.R., HAYES,M.O. COASTAL MORPHOLOGY AND OIL SPILL POLLUTION THE AMOCO-CADIZ EXPERIENCE $ CTR OCEANOL BRETAGNE F-29273 BREST FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 557-571 1981

HAYES,M.O
0227 D'OZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

0298 GETTER,C.D., HAYES,M.O. THE COMPARATIVE SENSITIVITIES OF 5 UNITED-STATES ESTUARIES TO OIL AND HAZARDOUS MATERIALS SPILLS $ RES AND PLANNING INST COLUMBIA SC ESTUARIES 4 (3) 244P. 1981

0341 HAYES,M.O., GUNDLACH,E.R., GETTER,C.D. SENSITIVITY RANKING OF ENERGY PORT SHORELINES $ UNIV OF SC COLUMBIA PORTS '80 SPEC CONF NORFOLK VA P. 697-709 1980

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

HAYES,R.M
0342 HAYES,R.M. OPERATIONAL USE OF REMOTE-SENSING DURING THE CAMPECHE-BAY OIL WELL BLOWOUT $ US COAST GUARD OCEANOGR UNIT WASHINGTON, D.C. PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1187-1196 1980

HAYES,T.M
0907 HAYES,T.M. MARITIMES REGION OIL SPILL ALERTING AND RESPONSE ORGANISATION $ CAN COAST GUARD DARTMOUTH NS ENVIRON INT 5 (3) P. 149-152 1981

HAYWARD,P
0282 RUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE HAGUE NETH CONCAWE REP (7) 155P. 1981

1112 RUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE 1981

HAZARD
0176 CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA CARGO FIRE HAZARDS AND HAZARD CONTROL FOR THE SUPPLEMENT FUEL SUPPLY ASSEMBLY (SFSA) $ 44P. 1980

0228 DRAKE,E.M., WESSON,H.R. REVIEW OF LNG SPILL VAPOR DISPERSION AND FIRE HAZARD ESTIMATION AND CONTROL METHODS $ ARTHUR D. LITTLE INC CAMBRIDGE MASS AM GAS ASSOC OPER SECT PROC 17P. 1976

0253 FAY,J.A. UNUSUAL FIRE HAZARD OF LNG TANKER SPILLS $ MASS INST OF TECHNOL CAMBRIDGE COMBUST SCI TECHNOL 7 (2) P. 47-49 1973

0301 GIDEON,D.N., PUTNAM,A.A. DISPERSION HAZARD FOR SPILLS OF LNG ON LAND AND ON WATER $ BATTELLE COLUMBUS LAB OHIO CRYOGENICS 17 (1) P. 9-15 1977

HAZARD

0440 LEES,F.P. SUME ASPECTS OF HAZARD SURVEY AND ASSESSMENT $ LOUGHBOROUGH UNIV OF TECHNOL LEICESTERSHIRE ENGL CHEM ENG (LONDON) (363) P. 736-741 1980

0729 SMALL,M.J., LAMBERT,W.P. A STOCHASTIC PROCEDURE FOR ALLOCATION OF FUNDS FOR TOXICOLOGICAL AND ENVIRONMENTAL RESEARCH ON THE BASIS OF HAZARD ASSESSMENT $ ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB FORT DETRICK MD AD-A091-688/2 8P. 1979

0756 SUTER,W.R. AUTOMATIC DIVERTER REDUCES SHALLOW BLOWOUT HAZARD $ WORLD OIL 182 (5) 53P. 1976

HAZARD/RISK

1036 KARDOS,G. STUDY OF APPLICATION AND SUITABILITY OF HAZARD/RISK ANALYSIS METHODOLOGY FOR ENVIRONMENTAL CONSIDERATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-9 OTTAWA ONTARIO 1980

HAZARDOUS

0060 BELASH,V.D., FEDOTOV,M.N. FORMATION OF LOCAL EXPLOSION HAZARDOUS PROPANE-AIR MIXTURES $ LENINGR FILIAL USES NAUCHNO-ISSLED INST PROTIVOPOZHARNO OBORNY LENINGRAD GAZOV PROM-ST (8) P. 55-7 1980

0209 DAVIS,W.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

0229 DRISCOLL,W.J. PIPELINE AND HAZARDOUS MATERIALS TRANSPORTATION SAFETY AND OIL SPILL REDUCTION $ US DOT WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 23-25 1979

0283 GABOR,T., GRIFFITH,T.K. ASSESSMENT OF COMMUNITY VULNERABILITY TO ACUTE HAZARDOUS MATERIALS INCIDENTS $ OHIO STATE UNIV COLUMBUS J HAZARD MATER 3 (4) P. 323-333 1980

0298 GETTER,C.D., HAYES,M.O. THE COMPARATIVE SENSITIVITIES OF 5 UNITED-STATES ESTUARIES TO OIL AND HAZARDOUS MATERIALS SPILLS $ RES AND PLANNING INST COLUMBIA SC ESTUARIES 4 (3) 244P. 1981

0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

0332 HANSEN,C.A., SANDERS,R.G. REMOVAL OF HAZARDOUS MATERIAL SPILLS FROM BOTTOMS OF FLOWING WATERBODIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-230922 113P. 1981

HAZARDOUS

0391 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 1 NARRATIVE $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-82-117078 322P. 1981

0392 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 2 APPENDICES $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-190944 477P. 1981

0414 KRISHNAN,R., HLAVIN,R. ALTERNATIVES FOR HAZARDOUS WASTE MANAGEMENT IN THE PETROLEUM REFINING INDUSTRY $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-113417 245P. 1979

0473 LUCKRITZ,R.T., SCHNEIDER,A.L. DECISION MAKING IN HAZARDOUS MATERIALS TRANSPORTATION $ US COAST GUARD ACAD NEW LONDON CONN J HAZARD MATER 4 (2) P. 129-143 1980

0584 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. SAFETY EFFECTIVENESS EVALUATION FEDERAL AND STATE ENFORCEMENT EFFORTS IN HAZARDOUS MATERIALS TRANSPORTATION BY TRUCK $ PB-81-180101 113P. 1981

0857 BREUEL,A. (ED.) POLLUTION TECHNOLOGY REVIEW NO 87: HOW TO DISPOSE OF OIL AND HAZARDOUS CHEMICAL SPILL DEBRIS $ USA 420P. 1981

0938 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO HAZARDOUS MATERIALS RESPONSE PROJECT: PROGRAM PLAN $ PB82-193046 33P. 1981

1068 COPENHAVER,E.D., WILKINSON,B.K. MOVEMENT OF HAZARDOUS SUBSTANCES IN SOIL A BIBLIOGRAPHY VOLUME 2 PESTICIDES $ PB80-113111 228P. 1979

1123 ANONYMOUS EXISTING AND PROPOSED PROGRAMS AND MEASURES FOR THE PREVENTION OF DISCHARGES OF OIL OR HAZARDOUS POLLUTING SUBSTANCES FROM ONSHORE AND OFFSHORE FACILITIES $ MINISTRY OF THE ENVIRONMENT OTTAWA ONTARIO 198[illegible]

HAZARDS

0143 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME IX HAZARDS $ PB-80-186893 686P. 1979

0144 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME X HAZARDS DATA MANAGEMENT $ PB-80-186901 522P. 1979

0176 CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA CARGO FIRE HAZARDS AND HAZARD CONTROL FOR THE SUPPLEMENT FUEL SUPPLY ASSEMBLY (SFSA) $ 44P. 1980

0340 HAUSER,J.N., BAIRD,R. SYSTEM TO PREDICT OFFSHORE DRILLING HAZARDS $ ODOM OFFSHORE SURV INC BATON ROUGE LA PET ENG INT 51 (8) P. 46, 50, 52, 56 1979

HAZARDS

0401 KEILLOR,J.P. THE HAZARDS OF TANK SHIPS AND BARGES TRANSPORTING PETROLEUM PRODUCTS ON THE GREAT-LAKES $ UNIV WISCONSIN INST SEA GRANT MADISON WI COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 319-336 1980

0464 LITTLE,A.D. INC CAMBRIDGE MA FEASIBILITY OF METHODS AND SYSTEMS FOR REDUCING LNG TANKER FIRE HAZARDS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 342P. 1980

0530 MURRAY,F.W., JAQUETTE,D.L., KING,W.S. HAZARDS ASSOCIATED WITH THE IMPORTATION OF LIQUEFIED-NATURAL-GAS $ RAND CORP REP 69P. 1976

0550 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XI HAZARDS $ PB-80-130107 693P. 1978

0551 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME XII HAZARDS $ PB-80-130115 626P. 1978

0869 CHAUHAN,K.J., GUPAL,K.L. HAZARDS AND REMEDY OF OIL SPILLS $ OIL AND NAT GAS COMM DEHRA DUN INDIA PROC OF THE WORLD PET CONGR 10TH 5 P. 31-37 1980

0910 HOGAN,W.J., ERMAK,D.L., KOOPMAN,R.P., LUDWIGSON,J. (ED.) PREDICTING THE HAZARDS FROM LARGE SPILLS OF LIQUEFIED-GASEOUS-FUELS $ LAWRENCE LIVERMORE NATL LAB LIVERMORE CA HAZARD MATER SPILLS CONF PROC P. 391-8 1982

HEAT

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

HEATED

0825 YEN,B.C., TSAO,C.H., HINKLE,R.D. SOIL-PIPE INTERACTION OF HEATED OIL PIPELINES $ CALIF STATE UNIV LONG BEACH CA TRANSPORTATION ENGINEERING JOURNAL OF ASCE 107 (1) P. 1-14 1981

HEAVER,T.D

1098 WATERS,W.G., HEAVER,T.D., VERRIER,T. OIL POLLUTION FROM TANKER OPERATIONS -- CAUSES COSTS CONTROLS $ CENTRE FOR TRANSPORTATION STUDIES VANCOUVER CANADA 1980

HEAVY

0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

0432 LEE,R.F., DURNSEIF,B., GUNSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

HEBERT,R
0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

HEDTKE,S.F
0908 HEDTKE,S.F., PUGLISI,F.A. SHORT-TERM TOXICITY OF 5 OILS TO 4 FRESH-WATER SPECIES $ US EPA ENVIRONMENTAL RES LAB DULUTH MN ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (4) P. 425-430 1982

HEIDERSBACH,R.H
0374 INGRAO,H.C., HEIDERSBACH,R.H., SHARP,R.K. PIPELINE TRANSPORTATION SAFETY R AND D WORKING GROUP MEETING PROCEEDINGS HELD AT CAMBRIDGE MASSACHUSETTS ON JUNE 30-JULY 1 1980 $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-81-151359 70P. 1980

HEIJDE,H.B
0108 BRIDIE,A.L., WANDERS,TH.H., ZEGVELD,W., VAN DER HEIJDE,H.B. FORMATION PREVENTION AND BREAKING OF SEA WATER IN CRUDE-OIL EMULSIONS 'CHOCOLATE-MOUSSES' $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

HEINEMANN,D
0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

HEINLE,D.R
0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE COPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P., HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

HELGAKER,P
0936 MUNDHEIM,O., TOERHAUG,M., HELGAKER,P. OFFSHORE BLOWOUT CONTROL $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING OSLO (NORWAY) 203P. 1981

HELICOPTER
1124 ANONYMOUS THE DEVELOPMENT AND TESTING OF A HELICOPTER PORTABLE BURNER $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1980

HELLMANN,H
0344 HELLMANN,H., MUELLER,D. TESTING THE TECHNICAL EFFICIENCY AND THE TOXICITY OF CHEMICAL AGENTS FOR DISPERSION OF CRUDE-OIL ON WATER SURFACES $ BUNDESANST GEWAESSERKD.KOBLENZ FED REP GER DTSCH GEWAESSERKD MITT 25 (2) P. 56-9 1981

HELSETH,J.M
0201 COX,J.M., EBBESMEYER,C.C., HELSETH,J.M., COOMES,C.A. DRIFT CARD OBSERVATIONS IN NORTHWESTERN WASHINGTON ALONG PORTIONS OF TWO PROPOSED OIL PIPELINE ROUTES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-173833 196P. 1980

HEMOCYANIN-O2
0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSNORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

HEMSNORTH,T
0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSNORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

HENDRICKS,A.C
1080 EATON,J.G., PARRISH,P.R., HENDRICKS,A.C. AQUATIC TOXICOLOGY $ PROCEEDINGS OF THE THIRD ANNUAL SYMPOSIUM ON AQUATIC TOXICOLOGY AMERICAN SOCIETY FOR TESTING AND MATERIALS PHILADELPHIA PA 405P. 1978

HENNIG,H
0278 FRICKE,A.H., HENNIG,H., ORREN,M.J. RELATIONSHIP BETWEEN OIL POLLUTION AND PSAMMOLITTORAL MEIOFAUNA DENSITY OF 2 SOUTH-AFRICAN BEACHES $ UNIV CAPE TOWN DEPT OF OCEANOG NATL RES INST OCEANOL RONDEBOSCH SOUTH AFRICA MARINE ENVIRONMENTAL RESEARCH 5 (1) P. 59-77 1981

HENNING,H.F.K.O
0345 HENNING,H.F.K.O., FRICKE,A.H. RECOVERY POTENTIAL AND CHRONIC OIL POLLUTION ON THE SOUTH-AFRICAN COAST $ UNIV CAPE TOWN NATL RES INST OCEANOL DEPT OCEANOG RONDEBOSCH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (10) P. 301-302 1980

HENRY,J
0375 INMAN,D.W., HENRY,J., MELVILLE,P. SIMULATION AND QUEUING MODELS TO ASSIST PLANNING OF ACCIDENT AND EMERGENCY SERVICES $ NE THAMES REGIONAL HLTH AUTHORITY CAVELL ST LONDON ENGL IN: GREMY,F., DEGOULET,P., BARBER,B., SALAMUN,R. MEDICAL INFORMATICS EUROPE 81 11 P. 266-274 1981

HENRY,M.F
0346 HENRY,M.F. UNDERGROUND LEAKAGE OF HYDROCARBONS AN OVERVIEW OF A POTENTIAL FIRE PROBLEM $ FIRE J (BOSTON) 75 (2) P. 91-94 1981

HENSON,J.M
0909 HENSON,J.M., HAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

HERDER

0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174402 1980

HERDING

1116 ANONYMOUS BURNING OF CRUDE-OIL UNDER WIND HERDING CONDITIONS $ ENERGETEX ENGINEERING WATERLOO ONTARIO 1981

HERMANN,M

0347 HERMANN,M., CHAUDE,O., WEILL,N., BEDOUELLE,H., HOFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

HERRE,B.H

0796 VILLAUME,J.F., HERRE,B.H., VOYKIN,D.P. CLEANUP OF AN OIL SPILL INTO GROUND-WATER AT WILLIAMSPORT PENNSYLVANIA A CASE HISTORY $ PA POWER AND LIGHT CO ALLENTOWN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 501-505 1979

HERRING-GULLS

0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

HERTZ,H.S

0819 WISE,S.A., CHESLER,S.N., HERTZ,H.S., MAY,W.E., GUENTHER,F.R. DETERMINATION OF TRACE LEVEL HYDROCARBONS IN MARINE BIOTA $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-126278 11P. 1980

0820 WISE,S.A., CHESLER,S.N., GUENTHER,F.R., HERTZ,H.S. HILPERT,L.R. INTERLABORATORY COMPARISON OF DETERMINATIONS OF TRACE LEVEL HYDROCARBONS IN MUSSELS $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-140253 6P. 1980

HESS,K.W

0348 HESS,K.W., KERR,C.L. MODEL TO FORECAST THE MOTION OF OIL ON THE SEA $ NATL WEATHER SERV SILVER SPRING MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 653-663 1979

HETEROTROPHIC

0909 HENSON,J.M., HAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

HEWITT,J.D
0349 HEWITT,J.D., RODGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 9P. 1980

HIDAKA,T
0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YUKUTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

HIGASHI,K
0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

HIGH-FIRE-POINT
0522 MODAK,A.T. IGNITABILITY OF HIGH-FIRE-POINT LIQUID SPILLS FINAL REPORT $ FACTORY MUTUAL RESEARCH CORP NORWOOD MA 77P. 1981

HIGH-SPEED
0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

HILL,G.W
0073 BERRYHILL,H.L. JR., SHIDELER,G.L., HOLMES,C.W., BARNES,S.S., HILL,G.W. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975: AN ATLAS AND INTEGRATED SUMMARY $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-217763 325P. 1977

HILL,H.R
0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL POAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

HILLMAN,S.D.J
0351 HILLMAN,S.D.J. STORAGE AND DISPOSAL OF OILY WASTE IN ALASKA $ SOHIO PET CO ANCHORAGE ALASKA ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 88-97 1978

HILPERT,L.R
0820 WISE,S.A., CHESLER,S.N., GUENTHER,F.R., HERTZ,H.S. HILPERT,L.R. INTERLABORATORY COMPARISON OF DETERMINATIONS OF TRACE LEVEL HYDROCARBONS IN MUSSELS $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-140253 6P. 1980

HILTRABRAND,R.R
0352 HILTRABRAND,R.R. CONTINUOUS OIL-IN-WATER MEASUREMENTS BY FLUOROMETRY $ US COAST GUARD RES AND DEV CENT GROTON CONN OCEANS (NEW YORK) ANNU COMB CONF OF IEEE AND MAR TECHNOL SOC 1979

HINES,A.L
0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

HINKLE,R.D
0825 YEN,B.C., TSAO,C.H., HINKLE,R.D. SOIL-PIPE INTERACTION OF HEATED OIL PIPELINES $ CALIF STATE UNIV LONG BEACH CA TRANSPORTATION ENGINEERING JOURNAL OF ASCE 107 (1) P. 1-14 1981

HIPPLE,D.L
0960 O'NEAL,W.C., BIANCHINI,G.M., BLOCKER,R.E., HIPPLE,D.L., HOGAN,W.J. 500-M-EXP-3 SPILL TEST FACILITY FOR LIQUEFIED-GASEOUS-FUELS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 25P. 1981

HISTOPATHOLOGICAL
0983 SOLANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND TRINECTES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MJ JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

HISTORIES
0390 JUHASZ,F. ECONOMIC EVALUATION OF THE ENVIRONMENTAL EFFECTS OF OIL POLLUTION A PRACTICAL LESSON USING THREE CASE HISTORIES $ OECD PARIS FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 53-58 1979

HISTORY
0796 VILLAUME,J.F., HERRE,B.H., VOYKIN,D.P. CLEANUP OF AN OIL SPILL INTO GROUND-WATER AT WILLIAMSPORT PENNSYLVANIA A CASE HISTORY $ PA POWER AND LIGHT CO ALLENTOWN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 501-505 1979

HIYAMA,Y
0353 HIYAMA,Y. SURVEY OF THE EFFECTS OF THE SETO INLAND SEA OIL SPILL IN 1974 $ UNIV OF TOKYO JPN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 699-707 1979

HLAVIN,R
0414 KRISHNAN,R., HLAVIN,R. ALTERNATIVES FOR HAZARDOUS WASTE MANAGEMENT IN THE PETROLEUM REFINING INDUSTRY $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-113417 245P. 1979

HU,C.H
0354 HU,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., RAO,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

0661 RAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HU,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

HUBBLE,J.E
0054 BARSDALE,R.J., MILLER,M.C., ALEXANDER,V., VESTAL,J.R., HUBBLE,J.E. OIL SPILL EFFECTS (ON TUNDRA POND LIMNOLOGY) $ INST MAR SCI UNIV ALASKA FAIRBANKS AK US/IBP SYNTH SER 13 (LIMNOL TUNDRA PONDS: BARROW ALASKA) P. 388-406, 457-91 1980

HUDGINS,H.D
0485 MALINS,D.C., HUDGINS,H.D. PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (11) 1272P. 1981

0890 FOLMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HUDGINS,H.D. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 458-462 1981

0926 MALINS,D.C., HUDGINS,H.D. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 372-373 1982

HUFFMAN,E.J
0221 DIMOCK,C.W., LAKE,J.L., NORWOOD,C.B., BOWEN,R.D., HUFFMAN,E.J. FIELD AND LABORATORY METHODS FOR INVESTIGATING A MARINE GASOLINE SPILL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-185712 5P. 1981

0355 HUFFMAN,E.J., FALKE,A.M., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

0356 HUFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

HUFFMAN,E.J
0357 HUFFMAN,E.J., QUINN,J.G. A COMPARISON OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS FROM NANTUCKET SHOALS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231508 12P. 1981

0358 HUFFMAN,E.J., QUINN,J.G. GAS-CHROMATOGRAPHIC ANALYSES OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS AT THE WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231524 7P. 1981

HUFNUNG,M
0347 HERMANN,M., CHAUDE,D., NEILL,N., BEDOUELLE,H., HUFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

HUGAN,W.J
0910 HUGAN,W.J., ERMAK,D.L., KOOPMAN,R.P., LUDWIGSON,J. (ED.) PREDICTING THE HAZARDS FROM LARGE SPILLS OF LIQUEFIED-GASEOUS-FUELS $ LAWRENCE LIVERMORE NATL LAB LIVERMORE CA HAZARD MATER SPILLS CONF PROC P. 391-8 1982

0960 O'NEAL,W.C., BIANCHINI,G.M., BLOCKER,R.E., HIPPLE,D.L., HUGAN,W.J. 500-M-EXP-3 SPILL TEST FACILITY FOR LIQUEFIED-GASEOUS-FUELS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 25P. 1981

HUGE,F.E
0359 HUGE,F.E., SWIFT,R.N. OIL FILM THICKNESS MEASUREMENT USING AIRBORNE LASER INDUCED WATER RAMAN BACKSCATTER $ NASA WALLOPS FLIGHT CENT WALLOPS ISL VA APPL OPT 19 (19) P. 3269-3281 1980

1127 O'NEIL,R.A., HUGE,F.E., BRISTOW,M.P.F. THE CURRENT STATUS OF AIRBORNE LASER FLUOROSENSING $ ENVIRONMENT CANADA ANN ARBOR MICHIGAN 1981

HULLAND,L.M
0360 HULLAND,L.M., SPALL,W.D., GARCIA,L.L., ROM,W.N. (ED), ARCHER,V.E. (ED) INHALATION TOXICOLOGY OF OIL-SHALE RELATED MATERIALS $ LOS ALAMOS SCI LAB UNIV CALIFORNIA LOS ALAMOS NM HEALTH IMPLIC NEW ENERGY TECHNOL (PARK CITY ENVIRON HEALTH CONF) P. 515-26 1979

HULLISTER,T.A
0361 HOLLISTER,T.A., WARD,G.S., PARRISH,P.R. ACUTE TOXICITY OF A #6-FUEL-OIL TO MARINE ORGANISMS $ EG AND G BIONOM MARINE RES LAB PENSACOLA FL BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 24 (5) P. 656-661 1980

HULLOWAY,D.M
0845 BLACK,W.T., HOLLOWAY,D.M., LUSCHER,U., NYMAN,D.J., THOMAS,H.P. STUDY OF THE FACTORS AFFECTING THE SAFETY OF ARCTIC PIPELINES $ DEPARTMENT OF TRANSPORTATION WASHINGTON,D.C. PB82-149030 114P. 1981

HOLMES,C.W

0073 BERRYHILL,H.L. JR., SHIDELER,G.L., HOLMES,C.W., BARNES,S.S., HILL,G.W. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975: AN ATLAS AND INTEGRATED SUMMARY $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-217763 325P. 1977

HOLMES,J.P

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.K., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

HOLMES,P.D

0362 HOLMES,P.D. PRACTICAL EXPERIENCES OF THE HANDLING AND DISPOSAL OF WATER-IN-OIL EMULSIONS $ BR PET CO LONDON ENGL ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 98-108 1980

HOLMES,W.N

0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

HOLT,S.L

0475 LUND,G., HOLT,S.L. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

HOM,K.B

0815 WILLIAMS,D.C., HOM,K.B. ONSHORE IMPACTS OF OFFSHORE OIL: A USER'S GUIDE TO ASSESSMENT METHODS $ DEPARTMENT OF THE INTERIOR WASHINGTON, D.C. PB-82-103474 72P. 1979

HONDA,S

0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

0814 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP II THE EVALUATION OF OIL ABSORBABILITY OF NATURAL SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 29-35 1981

HONDA,S
0996 WIDAYAT,K.P., MUERDOKO,W., WINIATI,W., HAGIWARA,K. HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP III FORMATION AND EVALUATION OF THE NATURAL SORBENTS $ OSAKA IND RES INST OSAKA JAPAN OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (4) P. 269-75 1981

HONG-KONG
0767 THOMPSON,G.B., WU,R.S.S. TOXICITY TESTING OF OIL SLICK DISPERSANTS IN HONG-KONG $ FISHERIES RES STN ABERDEEN HONG KONG MARINE POLLUTION BULLETIN 12 (7) P. 233-237 1981

HONMA,Y
1002 MUNIWA,Y., HONMA,Y. FLASH AND IGNITION POINTS OF LUBRICATING OILS $ HITACHI CO LTD HITACHI JAPAN JUNKATSU 16 (5) P. 364-9 1971

HOOPER,M.W
0654 PROVOST,L.P., WETHEROLD,R.G., HARRIS,G.E., HOOPER,M.W., PHILLIPS,W.R. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 4 APPENDICES C, D AND E $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-103830 529P. 1980

HORMESIS
0429 LAUGHLIN,R.B. JR., NG,J., GUARD,H.E. HORMESIS: A RESPONSE TO LOW ENVIRONMENTAL CONCENTRATIONS OF PETROLEUM HYDROCARBONS $ NAVAL BIOSCIENCES LAB OAKLAND CA AD-A097-07978 4P. 1980

HORN,A.J
0787 VAN HORN,A.J., WILSON,R. POTENTIAL RISKS OF LIQUEFIED-NATURAL-GAS $ HARVARD UNIV ENERGY AND ENVIRON POLICY CENT CAMBRIDGE MASS 2 (4) P. 375-389 1977

HORNE,M.W
0812 WHITTLE,P.J., HORNE,M.W. CHARACTERIZATION OF OIL SPILLS ON INLAND AND ESTUARINE WATERS $ NORTH WEST WATER AUTH WARRINGTON ENGL J INST WATER ENG SCI 34 (1) P. 50-60 1980

HOROWITZ,A
0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSUPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

HORTON,B.R
0898 GLASS,A.W., HORTON,B.R. "SLIKTRAK" COMPUTER SIMULATION OF SURFACE POLLUTION PROBLEMS ARISING FROM OFFSHORE OIL SPILLS $ SHELL INT PET MAATSCH THE HAGUE NETH PROC OF THE WORLD PET CONGR 10TH 5 P. 3-12 1980

HOSSAIN,K
1039 HOSSAIN,K., MACKAY,D. A STUDY OF THE COMBUSTIBILITY OF WEATHERED CRUDE-OILS AND WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-12 OTTAWA ONTARIO 1980

HUSSAIN,K

1060 MACKAY,D., HUSSAIN,K. STUDIES OF WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-34 OTTAWA ONTARIO 1982

1061 MACKAY,D., HUSSAIN,K. AN EXPLORATORY STUDY OF SEDIMENTATION OF NATURALLY AND CHEMICALLY DISPERSED OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-35 OTTAWA ONTARIO 1982

1092 ASLIN,J., HUSSAIN,K., MACKAY,D. EFFECTIVENESS OF AERIALLY APPLIED DISPERSANTS $ DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED CHEMISTRY TORONTO CANADA 1981

HOUGHTON,W.J

0364 HOUGHTON,W.J. LICENSING TOPICAL REPORT: APPLICATION OF PROBABILISTIC RISK ASSESSMENT IN THE SELECTION OF DESIGN BASIS ACCIDENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 50P. 1980

HOUSTON

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

HOWARD,R.L

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

HOWARTH,R.W

0366 HOWARTH,R.W. FISH VERSUS FUEL: A SLIPPERY QUANDRY $ WOODS HOLE OCEANOGR INST MASS TECHNOL REV 83 (3) P. 68-77 1981

HSIEH,Y.P

0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

HTGR

0264 FLEMING,K.N., SILADY,F.A., HANNAMAN,G.W. TREATMENT OF OPERATOR ACTIONS IN THE HTGR RISK ASSESSMENT STUDY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1979

HUANG,W.H

0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

HUC,A.Y
0809 WHELAN,J.K., HUNT,J.M., HUC,A.Y. APPLICATIONS OF THERMAL DISTILLATION-PYROLYSIS TO PETROLEUM SOURCE ROCK STUDIES AND MARINE POLLUTION $ DEPT CHEM WOODS HOLE MA JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS 2 (1) P. 79-96 1980

HUENEME
0176 CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA CARGO FIRE HAZARDS AND HAZARD CONTROL FOR THE SUPPLEMENT FUEL SUPPLY ASSEMBLY (SFSA) $ 44P. 1980

HUGGETT,R.J
0067 BENDER,M.E., SHEARLS,E.A., HUGGETT,R.J., MURRAY,L. ECOLOGICAL EFFECTS OF EXPERIMENTAL OIL SPILLS IN EASTERN COASTAL PLAIN ESTUARIES $ VA INST OF MAR SCI GLOUCESTER POINT ENVIRON INT 3 (2) P. 121-133 1980

HUM,S
1121 BEECH,F.G., BETTS,D.A., HUM,S., POND,S.G. WEST COAST OIL SPILL COUNTERMEASURES STUDY YEAR II $ ENVIRONMENTAL PROTECTION SERVICE PACIFIC COAST REGION 1982

HUMAN
0172 CHAPANIS,A. HUMAN FACTORS ENGINEERING FOR SAFETY $ PROF SAF 25 (7) P. 16-25 1980

HUME,E
0377 JACKSON,G.F., HUME,E., WADE,M.J., KIRSCH,M. OIL CONTENT IN PRODUCED BRINE ON TEN LOUISIANA PRODUCTION PLATFORMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-108408 495P. 1981

HUMPHREY,B
1062 GREEN,D., HUMPHREY,B., FOWLER,B. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY: PACIFIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-36 OTTAWA ONTARIO 1982

HUNDEMANN,A.S
0368 HUNDEMANN,A.S. REMOTE-SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT 1964-JULY 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-813140 192P. 1980

HUNT,G.L
0891 FURD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

HUNT,J.M
0809 WHELAN,J.K., HUNT,J.M., HUC,A.Y. APPLICATIONS OF THERMAL DISTILLATION-PYROLYSIS TO PETROLEUM SOURCE ROCK STUDIES AND MARINE POLLUTION $ DEPT CHEM WOODS HOLE MA JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS 2 (1) P. 79-96 1980

HUNT,L.L

0423 LARSON,R.A., HUNT,L.L., BLANKENSHIP,D.W. FORMATION OF TOXIC PRODUCTS FROM A #2-FUEL-OIL BY PHOTOOXIDATION $ STROUD WATER RES CENT OF ACAD OF NAT SCI OF PHILADELPHIA AVONDALE ENVIRON SCI TECHNOL 11 (5) P. 492-496 1977

HUNTER,J.R

1144 HUNTER,J.R. AN INTERACTIVE COMPUTER MODEL OF OIL SLICK MOTION $ JOURNAL OF OCEANOLOGY INTERNATIONAL 1980

HUPKA,J

0911 HUPKA,J. DETERMINATION OF THE SORPTION CAPACITY OF SORBENTS USED TO CLEAN-UP OIL SPILLS $ POL PL STUD WATER OCEANOL 35 P. 261-78 1981

HURON

0933 MEYERS,P.A., TAKEUCHI,N., ROBBINS,J.A. PETROLEUM HYDROCARBONS IN SEDIMENTS OF SAGINAW-BAY LAKE HURON $ UNIV OF MICH ANN ARBOR USA J GREAT LAKES RES 6 (4) P. 315-320 1980

HUTCHESON,M.S

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

HUTCHISON,J.H

0369 HUTCHISON,J.H., SIMONSEN,B.L. CLEANUP OPERATIONS AFTER THE 1976 SS-SANSINENA EXPLOSION AN INDUSTRIAL PERSPECTIVE $ IT CORP WILMINGTON CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 429-434 1979

HUTSON,J.Y

0901 GREGG,C.T., TIETJEN,G., HUTSON,J.Y. PRENATAL TOXICOLOGY OF SHALE-OIL RETORT WATER IN MICE $ UNIV CALIF LOS ALAMOS LOS ALAMOS NATL LAB LOS ALAMOS NM JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 795-804 1981

HYDRAULIC

0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

0774 TOTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CURDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

1010 WESTERN CANADA HYDRAULIC LABORATORIES LTD INVESTIGATION OF THE OPERATING PARAMETERS OF THE OIL SPILL CONTAINMENT AND RECOVERY (OSCAR) VESSEL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-5 OTTAWA ONTARIO 1981

HYDRO-CARBONS
0652 PUPP,W. CONCERNING THE BACTERIAL TOXICITY OF MINERAL OIL FRACTIONS AND HYDRO-CARBONS $ BAYER LANDESANSTALT F WASSERFORSCH MUENCHEN GER 0 (0) P. 301-312 1978

0850 BOEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-I BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LMW HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

HYDROBIOLOGICAL
0460 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST WATER PORT FACILITIES STUDY APPENDIX A WESTERN GULF HYDROBIOLOGICAL ZONES $ AD-A091-404/4 154P. 1973

0462 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX B NORTH CENTRAL GULF HYDROBIOLOGICAL ZONES $ AD-A091-405/1 99P. 1973

HYDROCARBON-UTILISING
0080 BHOSLE,N.B., NAVINKURVE,S. HYDROCARBON-UTILISING MICRO-ORGANISMS FROM DONA-PAULA-BAY-GOA $ NATL INST OF OCEANOGR DONA PAULA GOA INDIA MAR ENVIRON RES 4 (1) P. 53-58 1980

HYDROCYCLONES
0187 COLMAN,D.A., THEW,M.T., CORNEY,D.R. HYDROCYCLONES FOR OIL-WATER SEPARATION $ UNIV SOUTHAMPTON SOUTHAMPTON HAMPSHIRE ENGLAND IN: PRIESTLY,G., STEPHENS,H.S. PAPERS PRESENTED AT AN INTERNATIONAL CONF ON HYDROCYCLONES P. 143-165 1980

HYDRODYNAMIC
0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

HYDRODYNAMICS
1126 FANNELOP,T.K., SJOEN,K. HYDRODYNAMICS OF UNDER-WATER BLOWOUTS $ AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS NEW YORK NY 1980

HYDROMINERAL
0244 ENGELHARDT,F.R., WONG,M.P., DUEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

HYDROPHOBIC

0599 NESTERUVA,M.P., ANUFRIEVA,N.M., GORITSKII,A.B., SHUTER,L.M., VERLINSKAYA,R.M. REMOVAL OF OIL POLLUTANTS FROM WATER BODIES BY MEANS OF HYDROPHOBIC SORBENTS $ WATER RESOUR 7 (4) P. 375-379 1980

HYDROPHOBILIZED

0079 BEZURUDKO,O.V., KRUPA,A.A., MEDVEDEV,M.I., PASHCHENKO,A.A., TARASEVICH,Y. APPLICATION OF HYDROPHOBILIZED PERLITE FOR PURIFICATION OF SURFACE WATERS FROM OIL $ ACAD SCI UKSSR INST COLLOID CHEM AND WATER CHEM KIEV UKSSR UKRAINSKII KHIMICHESKII ZHURNAL 46 (1) P. 51-54 1980

HYLAND,J.L

0370 HYLAND,J.L., SCHNEIDER,E.D. PETROLEUM HYDROCARBONS AND THEIR EFFECTS ON MARINE ORGANISMS POPULATIONS COMMUNITIES AND ECOSYSTEMS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-80-195423 43P. 1979

HYPONEUSTONIC-COPEPOD

0691 SAMAIN,J.F., MOAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE CUZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

IAH

0103 BORKMANN,G., DIETRICH,P. INTERNATIONAL IAH SYMPOSIUM ON GROUND-WATER POLLUTION BY OIL HYDROCARBONS HELD AT PRAGUE 5-9 JUNE 1978 $ ZEITSCHRIFT FUR ANGEWANDTE GEOLOGIE 26 (5) P. 274-276 1980

ICE

0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL POAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

0290 ISANG,G., RECOVERY OF OIL SPILLED UNDER RIVER ICE COVER $ NATL WATER RES INST BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 387-396 1979

0291 GEE,T., VANDERKOOY,N. DEVELOPMENT OF A NOVEL ICE OIL BOOM FOR FLOWING WATERS $ ENVIRON CAN BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 377-385 1979

0483 MALCOLM,J.D., DUTTON,C.R. INTERFACIAL-TENSION AND CONTACT ANGLE OF CRUDE-OIL UNDER ICE $ MEM UNIV OF NEWFOUNDL ST. JOHN'S POAC 79 INT CONF ON PORT AND OCEAN ENG UNDER ARCTIC COND P. 771-778 1979

0514 METGE,M., TELFORD,A.S. OIL IN MOVING PACK ICE LABURATORY STUDY $ ESSO RESOUR CAN LTD POAC 79 INT CONF ON PORT AND OCEAN ENG UNDER ARCTIC COND 5TH P. 255-264 1979

ICE

0634 PARASHAR,S., STAPLETON,G., WORSFOLD,R., ONEIL,R., GRAY,L. ASSESSMENT OF SAR FOR OIL POLLUTION SURVEILLANCE IN THE ICE ENVIRONMENT $ REMOTEC APPLICAT INC ST JOHNS NEWFOUNDLAND IN: NORWEGIAN INST TECHNOL PUAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 3 P. 99-123 1979

0772 TOPHAM,D.R. DISPOSITION OF GAS-OIL MIXTURES TRAPPED UNDER ICE $ INST OF OCEAN SCI SIDNEY BC CAN J PHYS 58 (8) P. 1183-1190 1980

0893 FREE,A.P., COX,J.C., SCHULTZ,L.A. LABORATORY STUDIES OF OIL SPILL BEHAVIOR IN BROKEN ICE FIELDS $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A114-178/7 63P. 1981

1019 COMFORT,G., PURVES,W. THE BEHAVIOUR OF CRUDE-OIL SPILLED UNDER MULTI-YEAR ICE $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-4 OTTAWA ONTARIO 1982

1027 DICKENS,D.F. ICE CONDITIONS $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-8 OTTAWA ONTARIO 1981

1042 CENTRE FOR COLD OCEAN RESOURCES AN OILSPILL IN PACK ICE $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-15 OTTAWA ONTARIO 1981

1053 REMOTEC APPLICATIONS INC LABORATORY EXPERIMENTS IN THE DETECTION OF OIL UNDER ICE $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-26 OTTAWA ONTARIO 1981

1069 BUIST,I., DICKINS,D. OIL AND GAS UNDER SEA ICE STUDY - VOLUMES 1 AND 2 $ DOME PETROLEUM LIMITED 1981

ICE-COVERED

0166 CARSTENS,T., SENDSTAD,E. OIL SPILL ON THE SHORE OF AN ICE-COVERED FJORD IN SPITSBERGEN $ RIVER AND HARBOUR LAB TRONDHEIM NORWAY IN: NORWEGIAN INST TECHNOL PUAC 79: THE 5TH INTERNATIONAL CONF ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS VOL 2 P. 1227-1242 1979

0804 WELLER,G. OIL POLLUTION IN ICE-COVERED ARCTIC WATERS $ UNIV ALASKA INST GEOPHYS FAIRBANKS AK IN: NORWEGIAN INST TECHNOL PUAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 1 P. 393-406 1979

ICE-INFESTED

0511 MEIKLE,K.M. OIL SPILL COUNTERMEASURES FOR CANADA'S ICE-INFESTED WATERS $ DEP OF THE ENVIRON OTTAWA ONT ASME PAP N 81-PET-24 FOR MEET 7P. 1981

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

ICE-INFESTED
0009 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASE 1 - LITERATURE REVIEW AND FEASIBILITY STUDY $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-81-3 OTTAWA ONTARIO 1981

ICEBREAKING
0286 GARRETT,J.M. ARCTIC ALASKA AND ICEBREAKING: AN ASSESSMENT OF FUTURE REQUIREMENTS FOR THE UNITED STATES COAST GUARD $ NAVAL POSTGRADUATE SCHOOL MONTEREY CA AD-A100-990/1 189P. 1981

IDENTIFICATION
0017 ANDERSON,C.P., KILLEEN,T.J., TAFT,J.B., BENIA,A.P. IMPROVED IDENTIFICATION OF SPILLED OILS BY INFRARED-SPECTROSCOPY $ UNIV OF CONN GROTON ENVIRON SCI TECHNOL 14 (10) P. 1230-1234 1980

0068 BENTZ,A.P. OIL-SPILL IDENTIFICATION AND REMOTE-SENSING $ US COAST GUARD RES AND DEV CENT GROTON CONN ADV CHEM SER 185 PET IN THE MAR ENVIRON SYMP AT THE MEET OF THE ACS P. 55-86 1980

0069 BENTZ,A.P. OIL-SPILL IDENTIFICATION AND REMOTE-SENSING $ US COAST GUARD RES DEV CENT GROTON CT PREPR DIV PET CHEM AM CHEM SOC 23 (3) P. 916-29 1978

0194 CURFIELD,M.M., HAWKINS,H.L., JOHN,P., SOUTAR,I. ASSESSMENT OF PHOSPHORESCENCE-SPECTROSCOPY FOR CRUDE-OIL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ANALYST (LONDON) 106 (1259) P. 188-97 1981

0206 CUEVAS,P.A., FLORES,R.G.C., CASTELLANOS,T.R. GAS-CHROMATOGRAPHY AS A TECHNIQUE FOR OIL SPILL SOURCE IDENTIFICATION $ CROMATOGRAFIA DE GAS COMO TECNICA PARA LA IDENTIFICACION DE FUENTES DE DERRAME DE CRUDO INST MEX DEL PET MEXICO CITY REV INST MEX PET 12 (4) P. 30-41 1980

0232 EASTWOOD,D., WEHRY,E.L. (ED) USE OF LUMINESCENCE-SPECTROSCOPY IN OIL IDENTIFICATION $ RES DEV CENT US COAST GUARD GROTON CT MOD FLUORESC SPECTROSC 4 P. 251-75 1981

0274 FRANK,U., STAINKEN,D., GRUENFELD,M. METHODS FOR THE SOURCE IDENTIFICATION AND QUANTIFICATION OF OIL POLLUTION $ EPA EDISON NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 323-331 1979

0615 OGAWA,T. THE IDENTIFICATION METHOD FOR LUBRICATING OIL ADDITIVES IN BILGE BY THE INFRARED-SPECTROSCOPY $ KAIJO HOAN UNIV JAPAN NIPPON HAKUYO KIKAN GAKKAISHI 16 (2) P. 115-20 1981

0740 SOUTAR,I. SYNCHRONIZE YOUR WATCHES: THE APPLICATION OF LUMINESCENCE TECHNIQUES TO OIL SPILL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ENERGY BALANCE PAP ANNU MEET BR ASSOC ADV SCI P. 3-18 1979

IDENTIFICATION
0771 TITTARELLI,P., BALDASSARRI,L.T., ZERLIA,T. IDENTIFICATION OF SPILLED CRUDE-OILS BY VAPORPHASE ULTRAVIOLET-ABSORPTION-SPECTROMETRY $ STAZ SPERIMENTALE COMBUSTIBILI,VIALE A DE GASPERI SAN DONATO MILANE ITALY ANALYTICAL CHEMISTRY 53 (11) P. 1706-1708 1981

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ TERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

IEEE
0371 IEEE OIL SPILLS FROM SUBSTATION ELECTRICAL EQUIPMENT $ IEEE TRANSACTIONS ON POWER APPARATUS AND SYSTEMS 99 (3) P. 925-927 1980

IGNITABILITY
0522 MODAK,A.T. IGNITABILITY OF HIGH-FIRE-POINT LIQUID SPILLS FINAL REPORT $ FACTORY MUTUAL RESEARCH CORP NORWOOD MA 77P. 1981

IGNITION
1002 MUNIWA,Y., HONMA,Y. FLASH AND IGNITION POINTS OF LUBRICATING OILS $ HITACHI CO LTD HITACHI JAPAN JUNKATSU 16 (5) P. 364-9 1971

ILE-GRANDE
0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

ILLICHEV,V.I
0016 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SUKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

ILLINOIS
0372 ILLINOIS INST OF NATURAL RESOURCES WASHINGTON, D.C. WASTE OIL MANAGEMENT CONFERENCE ROAD TO RECOVERY 80 PROCEEDINGS HELD AT AMOCO RESEARCH CENTER NAPERVILLE ILLINOIS ON APRIL 3 1980 $ PB-80-224876 134P. 1980

IMAGERY
1011 DAWE,B.R., PARASHAR,S.K., RYAN,J.P., WORSFOLD,R.D. THE USE OF SATELLITE IMAGERY FOR TRACKING THE KURDISTAN OIL SPILL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-6 OTTAWA ONTARIO 1981

IMBIBING
0326 HALL,R.H., HAIGH,D.H., MARTIN,R.G., WAMPFLER,D.J. USE OF ABSORBENT (IMBIBING) POLYMERS IN SPILL CONTROL $ DOWN CHEM CO MIDLAND MICH 13TH LOSS PREV SYMP P. 170-174 1980

IMBRIE,R.J
0373 IMBRIE,R.J., KARMAN,K.R. COMPUTER SEARCHING FOR POLLUTION CLEANUP EQUIPMENT $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 257-260 1979

IMMUNITIES
0447 LEVENTHAL,F.D. THE BAY OF CAMPECHE OIL SPILL OBTAINING JURISDICTION OVER PETROLEOS-MEXICANOS UNDER THE FOREIGN SOVEREIGN IMMUNITIES ACT OF 1976 $ UNIV CALIF BERKELEY SCH LAW BERKELEY CA ECOLOGY LAW QUARTERLY 9 (2) P. 341-377 1981

IMPACT
0020 ANON. ENVIRONMENTAL IMPACT OF REFINERY WASTEWATER $ DIE AUSWIRKUNGEN VON RAFFINERIEABWAESSERN AUF DIE UMWELT ERDOEL KUHLE ERDGAS PETROCHEM VER BRENNST CHEM 33 (5) P. 214-219 1980

0097 BOUCHER,G. IMPACT OF AMOCO-CADIZ OIL-SPILL ON INTER-TIDAL AND SUBLITTORAL MEIOFAUNA $ CTR ETUD OCEANOG AND BIOL MARINE ROSCOFF ROSCOFF FRANCE MARINE POLLUTION BULLETIN 11 (4) P. 95-101 1980

0119 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA EXECUTIVE SUMMARY $ PB-82-106352 45P. 1980

0120 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA TECHNICAL ANALYSIS $ PB-82-106360 675P. 1980

0121 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA SUPPLEMENT $ PB-82-106378 90P. 1980

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0246 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. ENVIRONMENTAL IMPACT GUIDELINES FOR NEW SOURCE PETROLEUM REFINERIES $ PB-82-123514 128P. 1981

0302 GIERE,O. THE IMPACT OF CRUDE-OIL AND OIL DISPERSANTS ON THE MARINE OLIGOCHAETE MARIONINA-SUBTERRANEA $ UNIV HAMBURG INST ZOOL HAMBURG GER CAHIERS DE BIOLOGIE MARINE 21 (1) P. 51-60 1980

IMPACT

0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

0383 JOHANSSON,S., LARSSON,U., BOEHM,P. THE TSESIS OIL SPILL IMPACT ON THE PELAGIC ECOSYSTEM $ ASKO LAB INST MARINE RES UNIV STOCKHOLM SWED MAR POLLUT BULL 11 (0) P. 284-293 1980

0428 LAUBIER,L. AMOCO-CADIZ OIL SPILL: AN ECOLOGICAL IMPACT STUDY $ CENT NATL POUR L'EXPLOIT DES OCEANS BRETAGNE FR AMBIO 9 (6) P. 268-276 1980

0454 LINDEN,C., ELMGREN,R., BOEHM,P. TSESIS OIL SPILL: ITS IMPACT ON THE COASTAL ECOSYSTEM OF THE BALTIC SEA $ SWED WATER AND AIR POLLUT RES INST NYKOPING AMBIO 8 (6) P. 244-253 1979

0639 PEAKALL,D.B., MILLER,D.S., KINTER,W.B. PHYSIOLOGICAL TECHNIQUES FOR ASSESSING THE IMPACT OF OIL ON SEABIRDS $ CAN WILDL SERV OTTAWA ONT ASTM SPEC TECH PUBL N 693 AVIAN AND MAMM WILDL TOXICOL (SYMP) NEW ORLEANS P. 52-60 1978

0854 BROWN,K.W., BRAWAND,H., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 257-261 1982

0871 CLARK,R.B. THE IMPACT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS A SUMMING -UP $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 433-443 1982

0876 DAUVIN,J.C. IMPACT OF AMOCO-CADIZ OIL SPILL ON THE MUDDY FINE SAND ABRA-ALBA AND MELINNA-PALMATA COMMUNITY FROM THE BAY OF MORLAIX $ STN BIOL ROSCOFF FRANCE ESTUARINE COASTAL AND SHELF SCIENCE 14 (5) P. 517-531 1982

0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

0919 LAMPHEAR,F.C., RESTREPO,C.E. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

0962 UVIATT,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

IMPACI

0972 REED,M. OIL SPILL FATES AND FISHERY IMPACT ESTIMATION $ APPL SCI ASSOCIATES INC WAKEFIELD RI MARINE TECHNOLOGY SOCIETY JOURNAL 15 (4) P. 40-42 1981

0974 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME I $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217852 332P. 1982

0975 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME II EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA

1132 ANONYMOUS BEAUFORT-SEA-MACKENZIE-DELTA ENVIRONMENTAL IMPACT STATEMENT STATUS REPORT $ ENVIRONMENT CANADA 1982

1137 ANONYMOUS OIL SPILLS THEIR FATE AND IMPACT ON THE MARINE ENVIRONMENT $ WITHERBY AND CO LTD LONDON 1980

IMPACIED

0224 DOWTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASEIER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

IMPACIS

0021 ANON. PROCEEDINGS OF THE CONFERENCE ON ASSESSMENT OF ECOLOGICAL IMPACTS OF OIL SPILLS 1978 $ AM INST OF BIOL SCI ARLINGTON VA PROC OF THE CONF ON ASSESS OF ECOL IMPACTS OF OIL SPILLS 936P. 1978

0238 DEPARTMENT OF ENERGY WASHINGTON, D.C. SYNTHETIC FUELS AND THE ENVIRONMENT: AN ENVIRONMENTAL AND REGULATORY IMPACTS ANALYSIS $ 652P. 1980

0273 FOX,J.P. WATER RELATED IMPACTS OF IN-SITU OIL-SHALE PROCESSING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 350P. 1980

0277 FREY,J.H. ENVIRONMENTAL IMPACTS OF OIL-SHALE WASTE DISPOSAL JANUARY 1976-JUNE 1980 (CITATIONS FROM THE ENERGY DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-852527 82P. 1980

0457 LINDSTEDT-SIVA,J. MINIMIZING THE ECOLOGICAL IMPACTS OF OIL SPILLS $ ATL RICHFIELD CO LOS ANGELES CALIF ENVIRON INT 3 (2) P. 185-188 1980

0815 WILLIAMS,D.C., HOM,K.B. ONSHORE IMPACTS OF OFFSHORE OIL: A USER'S GUIDE TO ASSESSMENT METHODS $ DEPARTMENT OF THE INTERIOR WASHINGTON, D.C. PB-82-103474 72P. 1979

0873 CULLINS,J.W., POLEY,J.P. OIL SPILL CONTINGENCY PLANNING TO MINIMIZE IMPACTS FROM A MAJOR OIL WELL SPILL $ CITIES SERV CO USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 HOUSTON TEXAS P. 473-474 1981

IMPACTS
1067 BRASSARD,C., HARRISON,P., KWAMENA,F.A., WRIGHT,D. ONSHORE IMPACTS OF OFFSHORE HYDROCARBON DEVELOPMENT AN ANNOTATED BIBLIOGRAPHY $ ENVIRONMENT CANADA OTTAWA ONTARIO 1981

1097 CAIRNS,W.J., ROGERS,P.M. ONSHORE IMPACTS OF OFFSHORE OIL $ APPLIED SCIENCE PUBLISHERS LTD 1981

IMPLICATIONS
0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

0824 WU,R.S.S. DIFFERENCES IN THE TOXICITIES OF AN OIL DISPERSANT AND A SURFACE ACTIVE AGENT TO SOME MARINE ANIMALS AND THEIR IMPLICATIONS IN THE CHOICE OF SPECIES IN TOXICITY TESTING $ FISHERIES RES STN ABERDEEN HONG KONG MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 157-163 1981

0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LMW HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

0979 SINDERMANN,C.J. IMPLICATIONS OF OIL POLLUTION IN PRODUCTION OF DISEASE IN MARINE ORGANISMS $ NOAA NATL MARINE FISHERIES SERV SANDY HOOK NJ PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 385-399 1982

0992 VANBLARICOM,G.R., JAMESON,R.J. LUMBER SPILL IN CENTRAL CALIFORNIA WATERS IMPLICATIONS FOR OIL SPILLS AND SEA OTTERS $ US FISH AND WILDLIFE SERV SAN SIMEON CA SCIENCE 215 (4539) P. 1503-1505 1982

1129 GOLUB,K.S., MCSHEA,D.W. IMPLICATIONS OF THE IXTOC I BLOW-OUT AND OIL SPILL $ CENTER FOR SHORT-LIVED PHENOMENA WORLD INFORMATION SYSTEMS CAMBRIDGE MASSACHUSETTS 1980

IMPORTATION
0530 MURRAY,F.W., JAQUETTE,D.L., KING,W.S. HAZARDS ASSOCIATED WITH THE IMPORTATION OF LIQUEFIED-NATURAL-GAS $ RAND CORP REP 69P. 1976

IMPROVEMENT
0830 ZVEREVA,T.V., YAKOVLEV,E.I. IMPROVEMENT IN METHODS OF RATING OIL PIPELINE SYSTEMS $ NEFTYANOE KHOZYAISTVO (7) P. 66-68 1980

IN-LINE
0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

IN-SITU
0283 FOX,J.P. WATER RELATED IMPACTS OF IN-SITU OIL-SHALE PROCESSING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 350P. 1980

INCENDIARY
1044 ENERGEX ENGINEERING ARCTIC FIELD TRIALS OF THE DREV/AMOP INCENDIARY DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-17 OTTAWA ONTARIO 1981

INCIDENCE
0878 DEVEREUX,R., SIZEMORE,R.K. PLASMID INCIDENCE IN MARINE BACTERIA ISOLATED FROM PETROLEUM POLLUTED SITES ON DIFFERENT PETROLEUM HYDROCARBONS $ UNIV N CAROLINA DEPT BIOL WILMINGTON NC MARINE POLLUTION BULLETIN 13 (6) P. 198-202 1982

INCIDENT
0498 MATHEWS,K.W. "GLOBAL-HOPE IS AGROUND" AN INCIDENT AT SALEM-SOUND $ FIRST COAST GUARD DIST BOSTON MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 127-132 1979

INCIDENTS
0046 BAKEMAN,P.E. JR., ARMSTRONG,A.L. SYSTEMS APPROACH TO BEACH PROTECTION FOR OIL SPILL INCIDENTS PHASE I. FEASIBILITY STUDY $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OHIO PB-80-198997 56P. 1975

0283 GABOR,T., GRIFFITH,T.K. ASSESSMENT OF COMMUNITY VULNERABILITY TO ACUTE HAZARDOUS MATERIALS INCIDENTS $ OHIO STATE UNIV COLUMBUS J HAZARD MATER 3 (4) P. 323-333 1980

0967 PEARCE,J. RESEARCH ACTIVITIES RELATED TO OIL POLLUTION INCIDENTS $ NATL MARINE FISH SERV NORTHEAST CENT SANDY HOOK LAB HIGHLANDS N.J. INT COUNC EXPLOR SEA COOP RES REP 3 (107) P. 1-51 1981

INCINERATOR
0430 LAYNE,M.D. TEST AND EVALUATION OF THE TRECAN INCINERATOR $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A099-527/4 112P. 1981

INCLINED
0527 MUKHERJEE,H., BRILL,J.P., BEGGS,H.D. EXPERIMENTAL STUDY OF OIL WATER FLOW IN INCLINED PIPES $ JOHNSTON MACLO SCHLUMBERGER SUGERLAND TX JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME 103 (1) P. 56-66 1981

INDUCED-AIR
0758 SYLVESTER,N.D., BYESEDA,J.J. OIL/WATER SEPARATION BY INDUCED-AIR FLOTATION $ UNIV OF TULSA OKLA SPEJ SOC PET ENG J 20 (6) P. 579-590 1980

INDUSTRIES
0150 BUREAU OF LAND MANAGEMENT NEW-YORK ASSESSMENT OF SPACE AND USE CONFLICTS BETWEEN THE FISHING AND OIL INDUSTRIES VOLUME II ENGINEERING ASSESSMENT $ PB-81-215972 158P. 1981

INDUSTRY

0186 COLLINS,J.W. INFORMATION FROM OIL AND GAS INDUSTRY ESSENTIAL TO PROTECT COASTAL ENVIRONMENT FROM OILWELL SPILLS $ CITIES SERV CO CRANBURY NJ JOURNAL OF PETROLEUM TECHNOLOGY 33 (6) P. 1005-1007 1981

0414 KRISHNAN,R., HLAVIN,R. ALTERNATIVES FOR HAZARDOUS WASTE MANAGEMENT IN THE PETROLEUM REFINING INDUSTRY $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-113417 245P. 1979

0538 NATIONAL INDUSTRIAL POLLUTION CONTROL COUNCIL WASHINGTON, D.C. THE NATURAL-GAS INDUSTRY AND THE ENVIRONMENT $ 21P. 1972

0765 JERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SOLES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

INFAUNA

0379 JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SEAGRASS COMMUNITY AT ROSCOFF WITH SPECIAL REFERENCE TO THE BENTHIC INFAUNA $ UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS MARINE ECOLOGY-PROGRESS SERIES 2 (3) P. 207-212 1980

0791 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P. RESEARCH TO INVESTIGATE EFFECTS FROM PRUDHOE-BAY CRUDE-OIL ON INTERTIDAL INFAUNA OF THE STRAIT OF JUAN-DE-FUCA FIRST ANNUAL REPORT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-80-160955 46P. 1979

INFILTRATION

0698 SCHIEGG,H.O. FIELD INFILTRATION AS A METHOD FOR THE DISPOSAL OF OIL-IN-WATER EMULSIONS FROM THE RESTORATION OF OIL POLLUTED AQUIFERS $ LAB HYDRAULICS HYDROL GLACIOL SWISS FED INST TECHNOL ZURICH SWITZ WATER RES 14 (8) P. 1011-16 1980

INFRARED

0836 ARST,K.H.Y., KARO,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

INFRARED-SPECTROSCOPY

0017 ANDERSON,C.P., KILLEEN,T.J., TAFT,J.B., BENTA,A.P. IMPROVED IDENTIFICATION OF SPILLED OILS BY INFRARED-SPECTROSCOPY $ UNIV OF CONN GROTON ENVIRON SCI TECHNOL 14 (10) P. 1230-1234 1980

0615 OGAWA,T. THE IDENTIFICATION METHOD FOR LUBRICATING OIL ADDITIVES IN BILGE BY THE INFRARED-SPECTROSCOPY $ KAIJO HOAN UNIV JAPAN NIPPON HAKUYO KIKAN GAKKAISHI 16 (2) P. 115-20 1981

INFRARED-SPECTROSCOPY

0892 FRAME,G.M., FLANIGAN,G.A., CHAMBERLAIN,C.P. CLEANUP PROCEDURE FOR CONTAMINATED OILS PRIOR TO FINGERPRINTING BY GAS-CHROMATOGRAPHY AND INFRARED-SPECTROSCOPY $ US COAST GUARD CTR RES AND DEV GROTON CT BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 29 (1) P. 29-36 1982

INGESTED

0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

INGRAO,H.C

0374 INGRAO,H.C., HEIDERSBACH,R.H., SHARP,R.K. PIPELINE TRANSPORTATION SAFETY R AND D WORKING GROUP MEETING PROCEEDINGS HELD AT CAMBRIDGE MASSACHUSETTS ON JUNE 30-JULY 1 1980 $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-81-151359 /OP. 1980

INHALATION

0360 HOLLAND,L.M., SPALL,W.D., GARCIA,L.L., ROM,W.N. (ED), ARCHER,V.E. (ED) INHALATION TOXICOLOGY OF OIL-SHALE RELATED MATERIALS $ LOS ALAMOS SCI LAB UNIV CALIFORNIA LOS ALAMOS NM HEALTH IMPLIC NEW ENERGY TECHNOL (PARK CITY ENVIRON HEALTH CONF) P. 515-26 1979

INHOMOGENEITIES

0914 KALMYKOV,A.I., PICHUGIN,A.P. SPECIAL FEATURES OF THE DETECTION OF SEA SURFACE INHOMOGENEITIES BY THE RADAR METHODS $ OSOBENNOSTI OBNARUZHENIYA NEODNORODNOSTEI MORSKOI POVERKHNOSTI RADIOLOKATSIONNYM METODOM ACAD OF SCI OF THE UKR SSR INST OF RADIOPHYS AND ELECTRON KIEV IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 754-761 1981

INLAND

0011 ALLEN,A.A. CONTAINMENT AND RECOVERY TECHNIQUES FOR COLD WEATHER INLAND OIL SPILLS $ CROWLEY ENVIRON SERV CORP ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 345-353 1979

0282 FUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE HAGUE NETH CONCAWE REP (7) 155P. 1981

0353 HIYAMA,Y. SURVEY OF THE EFFECTS OF THE SETO INLAND SEA OIL SPILL IN 1974 $ UNIV OF TOKYO JPN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 699-707 1979

0812 WHITTLE,P.J., HORNE,M.W. CHARACTERIZATION OF OIL SPILLS ON INLAND AND ESTUARINE WATERS $ NORTH WEST WATER AUTH WARRINGTON ENGL J INST WATER ENG SCI 34 (1) P. 50-60 1980

1017 OWENS,E.H. CANADIAN INLAND WATERS COASTAL ENVIRONMENTS AND THE CLEANUP OF OIL SPILLS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-3 OTTAWA ONTARIO 1982

INLAND
1112 RUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE 1981

INLET
0704 SCIENCE APPLICATIONS INC BOULDER CO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF LOWER COOK INLET INTERIM SYNTHESIS REPORT $ PB-80-130735 252P. 1979

INMAN,D.W
0375 INMAN,D.W., HENRY,J., MELVILLE,P. SIMULATION AND QUEUING MODELS TO ASSIST PLANNING OF ACCIDENT AND EMERGENCY SERVICES $ NE THAMES REGIONAL HLTH AUTHORITY CAVELL ST LONDON ENGL IN: GREMY,F., DEGOULET,P., BARBER,B., SALAMUN,R. MEDICAL INFORMATICS EUROPE 81 11 P. 266-274 1981

INPUT-OUTPUT
0919 LAMPHEAR,F.C., RESTREPO,C.E. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

INSECTS
0723 SIMPSON,K.W. ABNORMALITIES IN THE TRACHEAL GILLS OF AQUATIC INSECTS COLLECTED FROM STREAMS RECEIVING CHLORINATED OR CRUDE-OIL WASTES $ NEW YORK STATE DEPT HLTH DIV LABS AND RES ALBANY NY FRESHWATER BIOLOGY 10 (6) 581P. 1980

INSHORE
0252 FASGADAIR - BP TAKES DELIVERY OF ITS INSHORE OIL RECOVERY AND POLLUTION CONTROL VESSEL AFTER CONVERSION AT CLYDEDOCK ENGINEERING GLASGOW $ NAVAL ARCHITECT (3) P. E111-113 1981

INSITU
0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

INSPECTORS
0689 UNTERBERG,W., MOOREHEAD,R.M. GUIDE FOR SPILL PREVENTION CONTROL AND COUNTERMEASURE INSPECTORS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-115296 119P. 1981

INSTITUT
0075 BERTRAND,A.R.V. MAJOR OFFSHORE OIL SPILL ACCIDENTS AND THE TANKER ACCIDENT DATA BANK (1955-1979) OF THE INSTITUT FRANCAIS DU PETROLE $ INST FR DU PET REV INST FR PET 24 (3) P. 483-541 1979

0843 BERTRAND,A.R.V. INSTITUT FRANCAIS DU PETROLE DATABANK ON ACCIDENTAL OIL SPILLS AT SEA (1955-1980) NEW RESULTS $ (LA BANQUE DE DONNEES DE L'INSTITUT FRANCAIS DU PETROLE SUR LES DEVERSEMENTS ACCIDENTELS DE PETROLE EN MER (1955-1980) - NOUVEAUX RESULTATS) INST FR DU PET RUEIL-MALMAISON REV INST FR PET 36 (2) P. 229-239 1981

INSTRUCTION

0919 LAMPHEAR,F.C., RESTREPO,C.E. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

INSTRUMENTATION

0240 DEPARTMENT OF ENERGY WASHINGTON, D.C. LIQUIFIED-NATURAL-GAS WIND-TUNNEL SIMULATION AND INSTRUMENTATION ASSESSMENTS $ 366P. 1978

INTER-TIDAL

0097 BOUCHER,G. IMPACT OF AMOCO-CADIZ OIL-SPILL ON INTER-TIDAL AND SUBLITTORAL MEIOFAUNA $ CTR ETUD OCEANOG AND BIOL MARINE ROSCOFF ROSCOFF FRANCE MARINE POLLUTION BULLETIN 11 (4) P. 95-101 1980

0839 BATTERSHILL,C.N., BERGQUIST,P.R. RESPONSES OF AN INTER-TIDAL GASTROPOD TO FIELD EXPOSURE OF AN OIL AND A DISPERSANT $ UNIV AUCKLAND DEPT ZOOL AUCKLAND NEW ZEALAND MARINE POLLUTION BULLETIN 13 (5) P. 159-162 1982

0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

INTERACTION

0641 PENMAN,A.D.M. SOIL STRUCTURE INTERACTION AND DEFORMATION PROBLEMS WITH LARGE OIL TANKS $ BUILDING RESEARCH STATION WATFORD ENGLAND PB-80-227192 20P. 1978

0825 YEN,B.C., TSAO,C.H., HINKLE,R.D. SOIL-PIPE INTERACTION OF HEATED OIL PIPELINES $ CALIF STATE UNIV LONG BEACH CA TRANSPORTATION ENGINEERING JOURNAL OF ASCE 107 (1) P. 1-14 1981

INTERACTIONS

0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P. HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

1003 LEENHEER,J.A., STUBER,H.A., NOYES,T.I. CHEMICAL AND PHYSICAL INTERACTIONS OF AN IN SITU OIL-SHALE PROCESS WATER WITH A SURFACE SOIL $ US GEOL SURV DENVER COLO OIL SHALE SYMP PROC 14TH GOLDEN COLO P. 357-375 1981

INTERDISCIPLINARY

0793 VERNBERG,E.J., ALTEKRUSE,E.B., BUTLER,S.D. PROCEEDINGS OF CONFERENCE ON OIL TANKER TRANSPORTATION: AN INTERDISCIPLINARY ANALYSIS OF NATIONAL AND INTERNATIONAL POLI $ SOUTH CAROLINA UNIV COLUMBIA AD-A080-085/4 250P. 1980

INTERFACIAL
0600 NEUSTADTER,E., WHITTINGHAM,K.P., GRAHAM,D.E. INTERFACIAL RHEOLOGICAL PROPERTIES OF CRUDE-OIL-WATER SYSTEMS $ PB RES CTR DIV NEW TECHNOL SUNBURY THAMES MIDDLESEX ENGLAND IN: SHAH, D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 307-326 1981

0616 OGINO,K., ONISHI,M. INTERFACIAL ACTION OF NATURAL SURFACTANTS IN OIL-WATER SYSTEMS $ FAC SCI AND TECHNOL NODA CHIBA JAPAN JOURNAL OF COLLOID AND INTERFACE SCIENCE 83 (1) P. 18-25 1981

INTERFACIAL-TENSION
0483 MALCOLM,J.D., DUTTON,C.R. INTERFACIAL-TENSION AND CONTACT ANGLE OF CRUDE-OIL UNDER ICE $ MEM UNIV OF NEWFOUNDL ST. JOHN'S POAC 79 INT CONF ON PORT AND OCEAN ENG UNDER ARCTIC COND P. 771-778 1979

0667 KEWICK,R.T., GATES,J., SMITH,J.H. SIMPLE TEST OF DISPERSANT EFFECTIVENESS BASED ON INTERFACIAL-TENSION MEASUREMENTS $ STANFORD RES INST INT MENLO PARK CALIF FUEL 59 (4) P. 263-265 1980

0686 KUCKENSTEIN,E., KRISHNAN,R. EFFECT OF ELECTROLYTES AND MIXTURES OF SURFACTANTS ON THE OIL-WATER INTERFACIAL-TENSION AND THEIR ROLE IN FORMATION OF MICRO-EMULSIONS $ SUNY BUFFALO FAC ENGN AND APPL SCI BUFFALO NY JOURNAL OF COLLOID AND INTERFACE SCIENCE 76 (1) P. 201-211 1980

INTERFACIAL-TENSIONS
0653 POUCHELON,A., MEUNIER,J., LANGEVIN,D., CHATENAY,D., CAZABAT,A.M. LOW INTERFACIAL-TENSIONS IN 3 PHASE SYSTEMS OBTAINED WITH OIL-WATER- SURFACTANT MIXTURES $ ECOLE NORM SUPER SPECT HERTZIENNE LAB PARIS FRANCE CHEMICAL PHYSICS LETTERS 76 (2) P. 277-281 1980

1059 MACKAY,D. OIL-WATER INTERFACIAL-TENSIONS IN CHEMICAL DISPERSANT SYSTEMS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-32 OTTAWA ONTARIO 1982

INTERLABORATORY
0820 WISE,S.A., CHESLER,S.N., GUENTHER,F.R., HERTZ,H.S. HILPERT,L.R. INTERLABORATORY COMPARISON OF DETERMINATIONS OF TRACE LEVEL HYDROCARBONS IN MUSSELS $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-140253 6P. 1980

INTERNATIONAL
0103 BORKMANN,G., DIETRICH,P. INTERNATIONAL IAH SYMPOSIUM ON GROUND-WATER POLLUTION BY OIL HYDROCARBONS HELD AT PRAGUE 5-9 JUNE 1978 $ ZEITSCHRIFT FUR ANGEWANDTE GEOLOGIE 26 (5) P. 274-276 1980

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

INTERNATIONAL

0532 MUZIKAR,R. (ED) INTERNATIONAL SYMPOSIUM ON GROUND-WATER POLLUTION BY OIL HYDROCARBONS PROCEEDINGS 1978 $ INT SYMP ON GROUND WATER POLLUT BY OIL HYDROCARBONS PROC PRAGUE CZECH 1978

0711 SEAWARD INTERNATIONAL INC FALLS-CHURCH VA OIL POLLUTION RESPONSE PLANNING GUIDE FOR EXTREME WEATHER $ AD-A079-714/2 238P. 1979

0793 VERNBERG,E.J., ALTEKRUSE,E.B., BUTLER,S.D. PROCEEDINGS OF CONFERENCE ON OIL TANKER TRANSPORTATION: AN INTERDISCIPLINARY ANALYSIS OF NATIONAL AND INTERNATIONAL POLI $ SOUTH CAROLINA UNIV COLUMBIA AD-A080-085/4 250P. 1980

0829 ZOLLARS,G.F. REMOTE-SENSING APPLIED TO POLLUTION MONITORING 1976-JUNE 1980 (CITATIONS FROM THE INTERNATIONAL AEROSPACE ABSTRACTS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-815632 61P. 1980

0924 MACKAY,D., WELLS,P.G., PATERSON,S. CHEMICAL DISPERSION OF OIL SPILLS: AN INTERNATIONAL RESEARCH SYMPOSIUM $ TORONTO UNIV (ONTARIO) INST FOR ENVIRONMENTAL STUDIES 223P. 1980

1102 ANONYMOUS PROCEEDINGS OF THE FIFTEENTH INTERNATIONAL SYMPOSIUM ON REMOTE-SENSING OF ENVIRONMENT VOLUMES I-III $ ENVIRONMENTAL RESEARCH INSTITUTE OF MICHIGAN ANN ARBOR MICHIGAN 1981

1108 MCCASLIN,J.C. INTERNATIONAL PETROLEUM ENCYCLOPEDIA $ PENWELL PUBLISHING CO TULSA OKLAHOMA 1980

1138 ANONYMOUS THE 1981 INTERNATIONAL DIRECTORY OF OIL SPILL CONTROL PRODUCTS $ OIL SPILL INTELLIGENCE REPORT BOSTON MASSACHUSETTS 1981

INTERNATIONALIZATION

0799 VORBACH,J.E., AHERN,J.F. INTERNATIONALIZATION OF SUPERFUND $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 17-21 1979

INTERTIDAL

0268 FLOCH,J.Y., DIDURIS,M. INITIAL EFFECTS OF AMOCO-CADIZ OIL ON INTERTIDAL ALGAE $ BREST UNIV FR AMBIO 9 (6) P. 284-286 1980

0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., ROWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD COUNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

0680 NYBLADE,C.F. THE STRAIT OF JUAN-DE-FUCA INTERTIDAL AND SUBTIDAL BENTHOS $ WASHINGTON UNIV FRIDAY HARBOR FRIDAY HARBOR LABS PB-80-142136 144P. 1979

0705 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME I $ PB-80-143704 203P. 1979

INTERTIDAL

0706 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 1-7 $ PB-80-143712 400P. 1979

0707 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 8-15 $ PB-80-143720 395P. 1979

0708 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORTS 10-19 $ PB-80-143753 596P. 1979

0751 STRAUGHAN,D. DISTRIBUTION OF TAR AND RELATIONSHIP TO CHANGES IN INTERTIDAL ORGANISMS ON SANDY BEACHES IN SOUTHERN CALIFORNIA $ UNIV OF SOUTH CALIF LOS ANGELES PROC - OIL SPILL CONF LOS ANGELES CALIF P. 591-601 1979

0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

0791 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P. RESEARCH TO INVESTIGATE EFFECTS FROM PRUDHOE-BAY CRUDE-OIL ON INTERTIDAL INFAUNA OF THE STRAIT OF JUAN-DE-FUCA FIRST ANNUAL REPORT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-80-160955 46P. 1979

0987 STEKOLL,M.S., CLEMENT,L.E., SHAW,D.G. SUBLETHAL EFFECTS OF CHRONIC OIL EXPOSURE ON THE INTERTIDAL CLAM "MACOMA-BALTHICA" $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB82-158163 12P. 1982

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

INVENTORY

0057 BECCASIO,A.D., WEISSBERG,G.H., REDFIELD,A.E., FREW,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

INVERTEBRATES

0626 DUDUT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

INVERTEBRATES

0627 DUDUT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL $ LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

1018 FOY,M.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-3 OTTAWA ONTARIO 1982

INVESTIGATE

0791 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P. RESEARCH TO INVESTIGATE EFFECTS FROM PRUDHOE-BAY CRUDE-OIL ON INTERTIDAL INFAUNA OF THE STRAIT OF JUAN-DE-FUCA FIRST ANNUAL REPORT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-80-160955 46P. 1979

INVESTIGATORS

0126 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 10 BIOLOGICAL STUDIES $ PB-82-124975 790P. 1981

0127 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 11 BIOLOGICAL STUDIES $ PB-82-124983 675P. 1981

0129 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166093 577P. 1979

0130 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 2 REPORT 18-24 $ PB-80-166101 720P. 1979

0137 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-186810 774P. 1979

0138 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME III RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186836 643P. 1979

0140 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME V RECEPTORS MICROBIOLOGY CONTAMINANT BASELINES $ PB-80-186851 703P. 1979

INVESTIGATORS

0141 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VII TRANSPORT $ PB-80-186877 569P. 1979

0142 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VIII TRANSPORT $ PB-80-186885 592P. 1979

0143 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME IX HAZARDS $ PB-80-186893 686P. 1979

0144 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME X HAZARDS DATA MANAGEMENT $ PB-80-186901 522P. 1979

0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

0147 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME II: RECEPTORS MICROBIOLOGY ECOLOGICAL PROCESSES $ PB-81-196271 521P. 1980

0148 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME III: EFFECTS AND CONTAMINANT BASELINES $ PB-81-196289 359P. 1980

IRELAND

0533 MYERS,A.A., SOUTHGATE,T., CROSS,T.F. DISTINGUISHING THE EFFECTS OF OIL POLLUTION FROM NATURAL CYCLICAL PHENOMENA ON THE BIOTA OF BANTRY-BAY IRELAND $ NATL UNIV IRELAND UNIV COLL CORK DEPT ZOOL CORK IRELAND MARINE POLLUTION BULLETIN 11 (7) P. 204-207 1980

IRELAND,G.F

0376 IRELAND,G.F. TANKER SAFETY AND POLLUTION PREVENTION HOW MUCH IS ENOUGH? $ US COAST GUARD WASHINGTON, D.C. PROC - SHIP TECHNOL AND RES (STAR) SYMP 5TH HELD IN CONJUNCTION WITH SNAME SPRING MEET CORONADO CALIF P. 5-19 1980

ISLAND

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND EI-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

ISLANDS
0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

ISOMERIC
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

ISOPOD
0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

1014 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF DISPERSED OIL ON AN ESTUARINE ISOPOD $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-1 OTTAWA ONTARIO 1982

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1980

ISOTOPE
0096 BOTELLO,A.V., CASTRO,S.A. BASE-LINE STUDIES FOR HYDROCARBONS AND ORGANIC-CARBON ISOTOPE RATIOS OF RECENT SEDIMENTS IN THE BANK OF CAMPECHE BEFORE THE IXTOC-1 OIL-SPILL $ NATL AUTONOMOUS UNIV MEXICO CTR CIENCIAS MAR AND LIMNOL MEXICO CITY ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 35P. 1980

IVEY,J.M
0760 TAGATZ,M.E., IVEY,J.M., OGLESBY,J.L. TOXICITY OF DRILLING-MUD BIOCIDES TO DEVELOPING ESTUARINE MACROBENTHIC COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY GULF BREEZE FLA PB-81-106031 10P. 1980

IXTOC
0846 BOEHM,P. IXTOC OIL SPILL ASSESSMENT: EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-197773 41P. 1982

0847 BOEHM,P. IXTOC OIL SPILL ASSESSMENT: FINAL REPORT (SECTIONS 1-8) $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-197781 335P. 1982

0848 BOEHM,P. IXTOC OIL SPILL ASSESSMENT: APPENDICES (SECTION 9) $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-197799 86P. 1982

IXTOC

1129 GOLOB,R.S., MCSHEA,D.W. IMPLICATIONS OF THE IXTOC I BLOW-OUT AND OIL SPILL $ CENTER FOR SHORT-LIVED PHENOMENA WORLD INFORMATION SYSTEMS CAMBRIDGE MASSACHUSETTS 1980

IXTOC-I

0033 ATLAS,R.M. FATE OF OIL FROM TWO MAJOR OIL SPILLS: ROLE OF MICROBIAL DEGRADATION IN REMOVING OIL FROM THE AMOCO-CADIZ AND IXTOC-I SPILLS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY ENVIRON INT 5 (1) P. 33-8 1981

0034 ATWOOD,D.K. PROCEEDINGS OF A SYMPOSIUM ON PRELIMINARY RESULTS FROM THE SEPTEMBER 1979 RESEARCHER/PIERLE IXTOC-I CRUISE HELD AT KEY BISCAYNE FLORIDA ON JUNE 9-10 1980 $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-81-246068 533P. 1980

0164 CARRANZAFRASER,J., SALGADO,M. PRELIMINARY RESULTS OF INVESTIGATIONS ON THE EFFECT OF THE IXTOC-I OIL SPILL ON THE ECOLOGY AND FISHERIES OF THE GULF OF MEXICO $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 33P. 1980

0212 DELIKAT,D.S. IXTOC-I OIL SPILL AND ATLANTIC RIDLEY-TURTLE SURVIVAL $ US COAST GUARD WASHINGTON, D.C. PROC OF THE SUMP ON COASTAL AND OCEAN MANAGE 2ND 1 P. 312-319 1980

0850 BOEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-I BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

0851 BOEHM,P.D., FLEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-I BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

0919 LAMPHEAR,F.C., RESTREPO,C.E. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

0925 MAGEE,R.G., HANNAH,R.P. IXTOC-I OIL SPILL AN EXAMPLE OF TAR-BALL FORMATION TRANSPORT AND FATE $ ENG LAB COMPUTER SCI CORP NSTL STATION MISS J MISS ACAD SCI 26 (0) P. 22-27 1981

0974 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME I $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217852 332P. 1982

0975 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME II EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA

IXTOC-1

1148 BOEHM,P.D., MACKAY,D. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDROCARBONS FROM THE IXTOC-1 BLOWOUT - CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1981

IXTOC-1

0085 BLACKBOURN,S.R. TEXAS 1979 EXPERIENCE WITH MARCO FILTERBELT SKIMMERS ON IXTOC-1 AND BURMAH-AGATE CRUDE OIL-SPILLS $ MARCO SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S P. 398-406 1980

0096 BOTELLO,A.V., CASTRO,S.A. BASE-LINE STUDIES FOR HYDROCARBONS AND ORGANIC-CARBON ISOTOPE RATIOS OF RECENT SEDIMENTS IN THE BANK OF CAMPECHE BEFORE THE IXTOC-1 OIL-SPILL $ NATL AUTONOMOUS UNIV MEXICO CTR CIENCIAS MAR AND LIMNOL MEXICO CITY ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 35P. 1980

0116 BUCKLEY,E.N., PFAENDER,F.K. EFFECTS OF IXTOC-1 OIL SPILL ON OCEANIC MICROBIAL COMMUNITIES $ UNIV OF NORTH CAROLINA CHAPEL HILL NC 8/ST ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY 81 (0) 182P. 1981

0198 CORTES,A., ALTAMIRANO,J. CHEMICAL EVOLUTION OF HYDROCARBONS IN WEATHERED BEACH OIL SAMPLES AFTER THE IXTOC-1 ACCIDENT $ INST MEXICANO PETR DIV ANALYT MEXICO CITY MEXICO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 10P. 1980

0490 MARCHAND,M., MONFORT,J.P., RUBIO,C.A. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE AMOCO-CADIZ AND IXTOC-1 OIL SPILLS $ CTR OCEANOL BRETAGNE BREST FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 37P. 1980

0838 ATWOOD,D.K., FERGUSON,R.L. AN EXAMPLE STUDY OF THE WEATHERING OF SPILLED PETROLEUM IN A TROPICAL MARINE ENVIRONMENT IXTOC-1 $ NOAA ATLANT OCEANOG AND METEOROL LABS RICKENBACKER CAUSEWAY MIAMI FL BULLETIN OF MARINE SCIENCE 32 (1) P. 1-13 1982

0840 BEDINGER,C.A., NULTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-1 BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV 5 HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

0912 JERNELOEV,A., LINDEN,O. IXTOC-1: A CASE STUDY OF THE WORLD'S LARGEST OIL SPILL $ SWED WATER AND AIR POLLUT RES INST STOCKHOLM AMBIO 10 (6) P. 299-306 1981

1076 ANONYMOUS PROCEEDINGS OF A SYMPOSIUM ON PRELIMINARY RESULTS FROM THE SEPTEMBER 1979 RESEARCHER/PIERCE IXTOC-1 CRUISE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO 1980

IZOTOV,V.I

0066 BELOUS,A.R., NOVIKOV,V.I., IZOTOV,V.I. DETERMINATION OF TEL CONTENT IN GASOLINES BY GAMMA-ABSORPTION METHOD $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 913-914 1979

JACKSON,G.F
0377 JACKSON,G.F., HUME,E., WADE,M.J., KIRSCH,M. OIL CONTENT IN PRODUCED BRINE ON TEN LOUISIANA PRODUCTION PLATFORMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-108408 495P. 1981

JACKSON,W.B
0378 JACKSON,W.B. ENVIRONMENTAL ASSESSMENT OF AN ACTIVE OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1977-1978 VOLUME II DATA MANAGEMENT AND BIOLOGICAL INVESTIGATIONS $ NATIONAL MARINE FISHERIES SERVICE GALVESTON TX PB-80-165970 799P. 1979

0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

JACOBS,R.P.W.M
0213 DENHARTOG,C., JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON AN EELGRASS COMMUNITY AT ROSCOFF (FRANCE) WITH SPECIAL REFERENCE TO THE MOBILE BENTHIC FAUNA $ CATHOLIC UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 182-191 1980

0379 JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SEAGRASS COMMUNITY AT ROSCOFF WITH SPECIAL REFERENCE TO THE BENTHIC INFAUNA $ UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS MARINE ECOLOGY-PROGRESS SERIES 2 (3) P. 207-212 1980

JACQUES,J.M
0380 JACQUES,J.M., RENSON,M., DELMOTTE,A. THE DEVELOPMENT OF A MODEL FOR BIOLOGICAL CONTROL OF SHALLOW TROPICAL WATERS SUBJECTED TO PETROLEUM THREATS $ NAECON NV DRONGEN BELGIUM IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 727-735 1981

JADAMEC,J.R
0356 HOFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

JAMESON,R.J
0992 VANBLARICOM,G.R., JAMESON,R.J. LUMBER SPILL IN CENTRAL CALIFORNIA WATERS IMPLICATIONS FOR OIL SPILLS AND SEA OTTERS $ US FISH AND WILDLIFE SERV SAN SIMEON CA SCIENCE 215 (4539) P. 1503-1505 1982

JAPAN
0381 JAPAN ATOMIC ENERGY RESEARCH INST TOKYO SAFETY ANALYSIS OF FUEL CIRCULATING SYSTEM FOR TOKAMAK EXPERIMENTAL FUSION REACTOR $ 161P. 1978

JAPANESE
0281 FUNATANI,C. JAPANESE GOVERNMENTAL AND INDUSTRIAL MEASURES FOR THE CONTROL OF MARINE OIL SPILLS $ JPN MAR DISASTER PREV CENT TOKYO JAPAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 261-267 1979

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.R., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

JAQUETTE,D.L
0530 MURRAY,F.W., JAQUETTE,D.L., KING,W.S. HAZARDS ASSOCIATED WITH THE IMPORTATION OF LIQUEFIED-NATURAL-GAS $ RAND CORP REP 69P. 1976

JENEI,M.H
0932 MESZAROS,M.H., JENEI,M.H., BALOGH,I.K. EFFECT OF WATER POLLUTED WITH OIL UPON BEAN-PLANTS $ JOZSEF ATTILA TUDOMANYEGYETEM SZEGED HUNGARY BOTANIKAI KOZLEMENYEK-BOTANICAL PUBLICATIONS 67 (4) P. 279-283 1980

JENKINS,D
0407 KLEIN,S.A., JENKINS,D. QUANTITATIVE AND QUALITATIVE ANALYSIS OF THE WATER SOLUBLE FRACTION OF JET-FUELS $ UNIV OF CALIF BERKELEY WATER RES 15 (1) P. 75-82 1981

JENKINS,R.H
0382 JENKINS,R.H. OILY WATER DISCHARGES FROM OFFSHORE OIL DEVELOPMENTS $ BP TRADING LTD CTR ENVIRONM CONTROL SUNBURY ENGL IN: UPTON,C.R. PROCEEDINGS OF THE NINTH ENVIRONMENTAL WORKSHOP ON OFFSHORE HYDROCARBON DEVELOPMENT P. 354-371 1980

JENKINS,T.F
0387 JOHNSON,L.A., COLLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

JERNELOEV,A
0912 JERNELOEV,A., LINDEN,O. IXTOC-1: A CASE STUDY OF THE WORLD'S LARGEST OIL SPILL $ SWED WATER AND AIR POLLUT RES INST STOCKHOLM AMBIO 10 (6) P. 299-306 1981

JERSEY
0404 KERR,C.L., BARRIENTOS,C.S. WORKSHOP ON THE PHYSICAL BEHAVIOR OF OIL IN THE MARINE ENVIRONMENT HELD AT PRINCETON UNIVERSITY PRINCETON NEW JERSEY ON MAY 8-9 1979 $ NATIONAL WEATHER SERVICE SILVER SPRING MD PB-81-123796 386P. 1979

JET
1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174402 1980

JET-FUELS
0407 KLEIN,S.A., JENKINS,D. QUANTITATIVE AND QUALITATIVE ANALYSIS OF THE WATER SOLUBLE FRACTION OF JET-FUELS $ UNIV OF CALIF BERKELEY WATER RES 15 (1) P. 75-82 1981

0867 CARLSON,R.E. THE BIOLOGICAL DEGRADATION OF SPILLED JET-FUELS: A LITERATURE REVIEW $ AIR FORCE ENGINEERING AND SERVICES CENTER TYNDALL AFB FL AD-A110-758/0 41P. 1981

JOHANSSON,S
0383 JOHANSSON,S., LARSSON,U., BOEHM,P. THE TSESIS OIL SPILL IMPACT ON THE PELAGIC ECOSYSTEM $ ASKO LAB INST MARINE RES UNIV STOCKHOLM SWED MAR POLLUT BULL 11 (0) P. 284-293 1980

JOHN,P
0194 CURFIELD,M.M., HAWKINS,M.L., JOHN,P., SOUTAR,I. ASSESSMENT OF PHOSPHORESCENCE-SPECTROSCOPY FOR CRUDE-OIL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ANALYST (LONDON) 106 (1259) P. 188-97 1981

JOHNS,D.M
0384 JOHNS,D.M., PECHENIK,J.A. INFLUENCE OF THE WATER-ACCUMMODATED FRACTION OF NO.-2-FUEL-OIL ON ENERGETICS OF 'CANCER-IRRORATUS' LARVAE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT, RI PB-81-185720 10P. 1981

JOHNSEN,T.M
0048 BAKKE,T., JOHNSEN,T.M. RESPONSE OF A SUBTIDAL SEDIMENT COMMUNITY TO LOW LEVELS OF OIL HYDROCARBONS IN A NORWEGIAN FJORD $ INST OF MAR RES NORDNES-BERGEN NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 633-639 1979

JOHNSON,A.M
0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

JOHNSON,D.W
0385 JOHNSON,D.W., MARTINSEN,W.E., CAVIN,W.D., CHILTON,P.D., LAWSON,H.P. CONTROL AND EXTINGUISHMENT OF LPG FIRES FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 124P. 1980

0497 MARTINSEN,W.E., JOHNSON,D.W., WELKER,J.R. FIRE SAFETY ON LPG IN MARINE TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 216P. 1980

JOHNSON,E.K
0738 SNIDER,W.D., SHEEHAN,D.F., JOHNSON,E.K. OVERVIEW OF CURRENT AND PROPOSED TANK VESSEL SAFETY AND POLLUTION PREVENTION MEASURES $ US COAST GUARD SEATTLE WASH PROC - SHIP TECHNOL AND RES (STAR) SYMP 4TH P. 93-119 1979

JOHNSON,I
0386 JOHNSON,I., MYLES,K.M., SICZEK,A.A. SAMPLING AND ANALYSIS OF HYDROCARBONS IN COMBUSTION GASES QUARTERLY REPORT APRIL-JUNE 1980 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1980

JOHNSON,J.C

0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.H., CANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-18 1980

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

JOHNSON,J.W

0874 CROSWELL,W.F., BLUME,H.J.C., JOHNSON,J.W. MICROWAVE REMOTE-SENSING MEASUREMENTS OF OIL POLLUTION OF THE OCEAN $ NASA LANGLEY RES CENT HAMPTON VA DIG - INT GEOSCI AND REMOTE SENS SYMP (IGARSS'81) 2 P. 1246-1251 1981

0983 JOHNSON,J.W., CROSWELL,W.F. CHARACTERISTICS OF 13.9 GHZ RADAR SCATTERING FROM OIL FILMS ON THE SEA SURFACE $ NASA LANGLEY RES CTR HAMPTON VA RADIO SCIENCE 17 (3) P. 611-617 1982

JOHNSON,L.A

0387 JOHNSON,L.A., COLLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

JOHNSON,M.G

0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174402 1980

1131 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

JOHNSTON,C.S

0388 JOHNSTON,C.S., BLANCHARD,J.R. HYDROCARBONS IN SEDIMENTS AND ASSOCIATED ORGANISMS $ INST OFFSHORE ENG HERIOT-WATT UNIV EDINBURGH SCOT ENERGY BALANCE PAP ANNU MEET BR ASSOC ADV SCI P. 20-36 1979

JONES,A.M

0047 BAKER,J.R., JONES,A.M., JONES,T.P., WATSON,H.C. OTTER LUTRA-LUTRA L MORTALITY AND MARINE OIL POLLUTION $ DEPT VET PATHOL VET FIELD STN WIRRAL CHESHIRE ENGLAND BIOLOGICAL CONSERVATION 20 (4) P. 311-321 1981

JONES,C.C
0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

JONES,T.P
0047 BAKER,J.R., JONES,A.M., JONES,T.P., WATSON,H.C. OTTER LUTRA-LUTRA L MORTALITY AND MARINE OIL POLLUTION $ DEPT VET PATHOL VET FIELD STN WIRRAL CHESHIRE ENGLAND BIOLOGICAL CONSERVATION 20 (4) P. 311-321 1981

JONES,W.E
0805 WENTSEL,R.S., JONES,W.E. III, FOUTCH,R., WILKINSON,M., KITCHENS,J.F. ACCELERATED RESTORATION OF SPILL DAMAGED LANDS $ ATLANTIC RES CORP ALEXANDRIA VA CONTROL HAZARD WATER SPILLS PROC NATL CONF P. 99-102 1980

JONG,E
0210 DE JONG,E. EFFECT OF A CRUDE-OIL SPILL ON CEREALS $ UNIV OF SASK SASKATOON ENVIRON POLLUT SER A 22 (3) P. 187-196 1980

JORDAN,P
1095 FAIRHALL,D., JORDAN,P. BLACK TIDE RISING - THE WRECK OF THE AMOCO-CADIZ $ ANDRE DEUTSCH LIMITED LONDON 1980

JORDAN,R.E
0389 JORDAN,R.E., PAYNE,J.R. FATE AND WEATHERING OF PETROLEUM SPILLS IN THE MARINE ENVIRONMENT A LITERATURE REVIEW AND SYNOPSIS $ LA JOLLA CALIF 0 (0) P. X+174 1980

JOUAN,M
0666 RENOUX,A., BUTOR,J.F., JOUAN,M. EFFECT OF ACCIDENTAL POLLUTION OF THE OCEAN ON MARINE AEROSOL $ FAC SCI CRETEIL UNIV PARIS VAL DE MARNE CRETEIL FRANCE J ENVIRON SCI HEALTH PART A VOL A16 (4) P. 397-404 1981

JOUSSOTDUBIEN,J
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

JOYCE,G
0890 FULMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HODGINS,H.O. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 458-462 1981

JUAN-DE-FUCA
0114 BROWN,D.W., FRIEDMAN,A.J., PROHASKA,P.G., MACLEOD,W.D. JR. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND PART II (SECOND-YEAR CONTINUATION) $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-82-104290 46P. 1981

JUAN-DE-FUCA

0185 BROWN,D.W., FRIEDMAN,A.J., BURROWS,D.G. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND $ NOAA NATIONAL ANALYTICAL FACILITY SEATTLE WA PB-80-128218 120P. 1979

0610 NYBLADE,C.F. THE STRAIT OF JUAN-DE-FUCA INTERTIDAL AND SUBTIDAL BENTHOS $ WASHINGTON UNIV FRIDAY HARBOR FRIDAY HARBOR LABS PB-80-142136 144P. 1979

0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

0791 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P. RESEARCH TO INVESTIGATE EFFECTS FROM PRUDHOE-BAY CRUDE-OIL ON INTERTIDAL INFAUNA OF THE STRAIT OF JUAN-DE-FUCA FIRST ANNUAL REPORT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-80-160955 46P. 1979

0807 WESTLAKE,D.W.S., COOK,F.D. PETROLEUM BIODEGRADATION POTENTIAL OF NORTHERN PUGET-SOUND AND STRAIT OF JUAN-DE-FUCA ENVIRONMENTS $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WASHINGTON PB-81-141137 147P. 1980

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

JUDSON,K

0234 EHRENSPECK,H., MATUCK,C., JUDSON,K. OIL POLLUTION ABSTRACTS VOLUME 7 NUMBER 2 (JULY 1980-NOVEMBER 1980) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-141582 233P. 1981

JUHASZ,F

0390 JUHASZ,F. ECONOMIC EVALUATION OF THE ENVIRONMENTAL EFFECTS OF OIL POLLUTION A PRACTICAL LESSON USING THREE CASE HISTORIES $ OECD PARIS FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 53-58 1979

JURISDICTION
0447 LEVENTHAL,F.D. THE BAY OF CAMPECHE OIL SPILL OBTAINING JURISDICTION OVER PETROLEOS-MEXICANOS UNDER THE FOREIGN SOVEREIGN IMMUNITIES ACT OF 1976 $ UNIV CALIF BERKELEY SCH LAW BERKELEY CA ECOLOGY LAW QUARTERLY 9 (2) P. 341-377 1981

JUVENILE
0205 CUCCI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB 'EURYPANOPEUS-DEPRESSUS' $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203508 9P. 1979

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

KACZMAREK,T.D
0391 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 1 NARRATIVE $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-82-117078 322P. 1981

0392 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 2 APPENDICES $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-190944 477P. 1981

KAISER,P
0050 BALLERINI,D., KAISER,P., RIVIERE,J. QUANTITATIVE AND QUALITATIVE DEVELOPMENT OF SOME BACTERIAL FUNCTIONAL GROUPS IN SEDIMENTS POLLUTED BY OIL SPILLS $ INST FRANCAIS PETROLE RUEIL MALMAISON FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 269-77 1981

KAKLINS,I
0059 BECK,N., ABUBA,B., MILLER,D., KAKLINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

KALITINA,N.N
0512 MELENT'EVA,N.I., MALYSHEVA,I.V., KALITINA,N.N., SAVIN,L.N. ACCELERATED METHOD FOR EVALUATING CHEMICAL STABILITY OF FUELS DURING LONG-TERM STORAGE $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 843-846 1979

KALLENOWSKY,E
0630 RICHTER,M., KALLENOWSKY,E. A METHOD SAVING EXCAVATION WORK FOR REPAIRING LEAKS IN LOW PRESSURE GAS PIPELINES $ BRENNSTOFFINST FREIBERG FACHBEREICH LEIPZIG LEIPZIG GER ENERGIETECHNIK 31 (2) P. 58-61 1981

KALMYKOV,A.I

0914 KALMYKOV,A.I., PICHUGIN,A.P. SPECIAL FEATURES OF THE DETECTION OF SEA SURFACE INHOMOGENEITIES BY THE RADAR METHODS $ OSOBENNOSTI OBNARUZHENIYA NEODNORODNOSTEI MORSKOI POVERKHNOSTI RADIOLOKATSIONNYM METODOM ACAD OF SCI OF THE UKR SSR INST OF RADIOPHYS AND ELECTRON KIEV IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 754-761 1981

KAMYSHOVA,V.K

0485 KUCHERENKO,L.A., KAMYSHOVA,V.K. DEPENDENCE OF THE TOXIC AND PROTECTIVE PROPERTIES OF SHALE-OILS ON THEIR CONTENTS OF WATER SOLUBLE PHENOLS $ MV LOMONO SOV STATE UNIV MOSCOW JOURNAL OF APPLIED CHEMISTRY OF THE USSR 54 (1) P. 112-114 1981

KARD,P.G

0836 ARST,K.H.Y., KARD,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

KARDOS,G

1036 KARDOS,G. STUDY OF APPLICATION AND SUITABILITY OF HAZARD/RISK ANALYSIS METHODOLOGY FOR ENVIRONMENTAL CONSIDERATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-9 OTTAWA ONTARIO 1980

KARELIN,Y.A

0393 KARELIN,Y.A., ZHUKOV,D.D., SAIDAMINOV,I.A. BIOCHEMICAL TREATMENT OF OIL CONTAINING WASTEWATER IN AERATION TANKS $ CHEM TECHNOL FUELS OILS 15 (7-8) P. 540-544 1979

KARELL,M

0394 KARELL,M. RELIABILITY AND SAFETY ANALYSIS OF ACTIVITY MEASURING SYSTEMS 1 RELIABILITY ANALYSIS OF THE STACK MONITORING SYSTEM 1317A $ AKTIEBOLAGET ATOMENERGI STUDSVIK (SWEDEN) STUDSVIK-IP-78-3 26P. 1978

KARINEN,J.F

0395 KARINEN,J.F. PETROLEUM IN THE DEEP SEA ENVIRONMENT: POTENTIAL FOR DAMAGE TO BIOTA $ NOAA AUKE BAY ALASKA ENVIRON INT 3 (2) P. 135-144 1980

KARNOFSKY,E.B

0837 ATEMA,J., KARNOFSKY,E.B., OLESZKO-SZUIS,S., BRYANT,B. LOBSTER BEHAVIOR AND CHEMORECEPTION: SUBLETHAL EFFECTS OF NUMBER-2-FUEL-OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-192444 71P. 1982

KARPEN,J

0396 KARPEN,J., GALT,J. MODELING OF OIL MIGRATION IN PUGET-SOUND $ SCI APPL INC RALEIGH NC ANNU COMB CONF OF IEEE (COUNC ON OCEANIC ENG) AND MAR TECHNOL SOC SAN DIEGO 1979

KARWAN,K.R

0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

0373 IMBRIE,R.J., KARWAN,K.R. COMPUTER SEARCHING FOR POLLUTION CLEANUP EQUIPMENT $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 257-260 1979

0397 KARWAN,K.R., STONE,C.M. WHO CLEANS UP THE OIL? A MICROECONOMIC STUDY $ TULANE UNIV NEW ORLEANS LA ENVIRON INT 3 (2) P. 193-200 1980

KARYDIS,M

0398 KARYDIS,M. THE TOXICITY OF CRUDE-OIL FOR THE MARINE ALGA SKELETONEMA-COSTATUM (GREVILLE) CLEVE IN RELATION TO NUTRIENT LIMITATION $ DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE HYDROBIOLOGIA 85 (2) P. 137-143 1981

0915 KARYDIS,M. TOXICITY OF A PHOTOOXIDIZED CRUDE-OIL ON 2 MARINE MICROALGAE $ NUCL RES CTR DEMOCRITOS DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE BOTANICA MARINA 25 (1) P. 25-29 1982

KASA,I

0045 BAJNOCZY,G., KASA,I. SPECTROFLUOROMETRIC DETERMINATION OF PETROLEUM IN DRINKING WATER $ TECH UNIV BUDAPEST HUNG PERIOD POLYTECH CHEM ENG 24 (1) P. 29-33 1980

KASHIMOTO,T

0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

KATO,Y

0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,M., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

KATOR,H

0478 MACCUBBIN,A.E., KATOR,H. DISTRIBUTION ABUNDANCE AND PETROLEUM DEGRADING POTENTIAL OF MARINE BACTERIA FROM MIDDLE ATLANTIC CONTINENTAL SHELF WATERS $ VIRGINIA INST MARINE SCI DEPT MICROBIOL PATHOL GLOUCESTER POINT VA IN: BOURQUIN,A.W., PRITCHARD,P.H. PROCEEDINGS OF THE WORKSHOP: MICROBIAL DEGRADATION OF POLLUTANTS IN MARINE ENVIRONMENTS P. 380-395 1979

KAY,D.G

0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

KAZMIERCZAK,L.J

0389 KAZMIERCZAK,L.J. OIL SPILL CLEANUP AND CONTAINMENT $ SUN CO INC PHILADELPHIA PA IN: NATL ACAD SCI OUTER CONTINENTAL SHELF FRONTIER TECHNOLOGY P. 179-208 1980

0400 KAZMIERCZAK,L.J. MAJOR SPILL RESPONSE PLANNING FOR TANKER OPERATIONS $ SUN CO PHILADELPHIA PA PROC - OIL SPILL LOS ANGELES CALIF P. 123-125 1979

KEILLOR,J.P

0401 KEILLOR,J.P. THE HAZARDS OF TANK SHIPS AND BARGES TRANSPORTING PETROLEUM PRODUCTS ON THE GREAT-LAKES $ UNIV WISCONSIN INST SEA GRANT MADISON WI COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 319-336 1980

KEITH,V.F

0402 KEITH,V.F. REAL TIME SIMULATION OF OIL TANKER OPERATIONS IN VALDEZ ALASKA $ ECO INC ANNAPOLIS MD IN: SOC COMP SIMULAT PROCEEDINGS OF THE 1980 SUMMER COMPUTER SIMULATION CONFERENCE P. 405-410 1980

KEIZER,P.D

1057 KEIZER,P.D. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY - ATLANTIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-30 OTTAWA ONTARIO 1982

KELLY,K.P

0790 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DE-ROOCKER,A., KELLY,K.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE REP (9) 52P. 1980

1113 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DEBROCKER,A., KELLY,K.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE 1980

KENNICUTT,M.C

0112 BROOKS,J.M., WIESENBURG,D.A., BURKE,R.A. JR., KENNICUTT,M.C. GASEOUS AND VOLATILE HYDROCARBON INPUTS FROM A SUBSURFACE OIL SPILL IN THE GULF OF MEXICO $ DEP OCEANOGR TEXAS A AND M UNIV COLLEGE STATION TX ENVIRON SCI TECHNOL 15 (8) P. 951-9 1981

KENTUCKY

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

KERKHOFF,M

0403 KERKHOFF,M., FRINTROP,P., KOOPS,W. POLLUTION OF THE DUTCH COAST BY OIL FROM THE "ELENI-V" JULY 1978 $ NETH INST FOR FISH INVEST IJMUIDEN SCI TOTAL ENVIRON 19 (1) P. 33-39 1981

KERR,C.L

0348 HESS,K.W., KERR,C.L. MODEL TO FORECAST THE MOTION OF OIL ON THE SEA $ NATL WEATHER SERV SILVER SPRING MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 653-663 1979

KERR,C.L
0404 KERR,C.L., BARRIENTOS,C.S. WORKSHOP ON THE PHYSICAL BEHAVIOR OF OIL IN THE MARINE ENVIRONMENT HELD AT PRINCETON UNIVERSITY PRINCETON NEW JERSEY ON MAY 8-9 1979 $ NATIONAL WEATHER SERVICE SILVER SPRING MD PB-81-123796 386P. 1979

KHOMYAKOV,V.M
0418 KUZNETSOV,A., GRITSKOV,V.S., KHOMYAKOV,V.M., KUDINOV,Y. DISPERSION SYSTEM FOR PREPARING OIL-WATER EMULSIONS $ METALLURGIST 23 (7-8) P. 554-556 1979

KIESSER,S.L
0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

KILLEEN,T.J
0017 ANDERSON,C.P., KILLEEN,T.J., TAFT,J.B., BENIA,A.P. IMPROVED IDENTIFICATION OF SPILLED OILS BY INFRARED-SPECTROSCOPY $ UNIV OF CONN GROTON ENVIRON SCI TECHNOL 14 (10) P. 1230-1234 1980

KILLIFISH
0262 FINGERMAN,S.W. DIFFERENCES IN THE EFFECTS OF FUEL OIL AN OIL DISPERSANT AND THREE POLYCHLORINATED-BIPHENYLS ON FIN REGENERATION IN THE GULF COAST KILLIFISH FUNDULUS-GRANDIS $ TULANE UNIV NEW ORLENAS LA BULL ENVIRON CONTAM TOXICOL 25 (2) P. 234-240 1980

KINAKU,P.D.S
0405 KINAKU,P.D.S. SHORT-TERM EFFECTS OF OIL POLLUTION ON SPECIES NUMBERS AND PRODUCTIVITY OF A SIMPLE TERRESIRIAL ECOSYSTEM $ UNIV PORT HARCOURT SCH BIOL SCI PORT HARCOURT ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 87-91 1981

KINEMAN,J
1105 KINEMAN,J., ELMGREN,R., HANSSON,S. THE TSESIS OIL SPILL $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLORADO 1980

KING,W.S
0530 MURRAY,F.W., JAQUETTE,D.L., KING,W.S. HAZARDS ASSOCIATED WITH THE IMPORTATION OF LIQUEFIED-NATURAL-GAS $ RAND CORP REP 69P. 1976

KINTER,W.B
0639 PEAKALL,D.B., MILLER,D.S., KINTER,W.B. PHYSIOLOGICAL TECHNIQUES FOR ASSESSING THE IMPACT OF OIL ON SEABIRDS $ CAN WILDL SERV OTTAWA ONT ASTM SPEC TECH PUBL N 693 AVIAN AND MAMM WILDL TOXICOL (SYMP) NEW ORLEANS P. 52-60 1978

KIRSCH,M
0387 JACKSON,G.E., HUME,E., WADE,M.J., KIRSCH,M. OIL CONTENT IN PRODUCED BRINE ON TEN LOUISIANA PRODUCTION PLATFORMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-108408 495P. 1981

KITAMURA,Y

0761 TAKAHASHI,T., KITAMURA,Y., NAKADA,K. SPREADING OF OIL SLICKS ON CALM WATER SURFACES EFFECT OF THE VISCOUS DRAG OF AN OIL SLICK ON ITS SPREADING RATE $ OKAYAMA UNIV JPN INT CHEM ENG 21 (2) P. 244-250 1981

0986 KITAMURA,Y., TAKAHASHI,T. WIND INDUCED DRIFT OF OIL SLICKS SPREAD ON WATER SURFACE $ OKAYAMA UNIV DEPT IND CHEM OKAYAMA JAPAN KAGAKU KOGAKU RONBUNSHU 8 (2) P. 194-198 1982

KITCHENS,J.F

0805 WENTSEL,R.S., JONES,W.E. III, FOUTCH,R., WILKINSON,M., KITCHENS,J.F. ACCELERATED RESTORATION OF SPILL DAMAGED LANDS $ ATLANTIC RES CORP ALEXANDRIA VA CONTROL HAZARD WATER SPILLS PROC NATL CONF P. 99-102 1980

KITTIWAKE

0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

KLAIBER,T

0406 KLAIBER,T. TESTS FOR DETECTING LEAKS IN PETROLEUM PIPELINES $ TECHNISCHES MESSEN 47 (4) 157P. 1980

KLEIN,S.A

0407 KLEIN,S.A., JENKINS,D. QUANTITATIVE AND QUALITATIVE ANALYSIS OF THE WATER SOLUBLE FRACTION OF JET-FUELS $ UNIV OF CALIF BERKELEY WATER RES 15 (1) P. 75-82 1981

KNOWLTON,H.E

0408 KNOWLTON,H.E., RUCKER,J.E. REFINERY OILY WASTE TREATMENT AND DISPOSAL TECHNIQUES AND THEIR POTENTIAL APPLICATION TO OIL SPILL DEBRIS $ CHEVRON RES CO RICHMOND CALIF DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP DENVER COLO P. 109-117 1978

KUBLANSKI,J.N

0409 KUBLANSKI,J.N. OIL SPILL REMOVAL IN THE MARINE ENVIRONMENT UTILIZING ACOUSTIC ENERGY $ OCEAN ECOL LTD VANCOUVER BC CANADA JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (3) P. 92-96 1981

0410 KUBLANSKI,J.N. OIL SPILL REMOVAL IN THE MARINE ENVIRONMENT UTILIZING ACOUSTIC ENERGY $ JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 19 (1) 36P. 1980

KUDIAK-ISLAND

0976 SAMUELS,W.B., LANFEAR,K.J., NAKASSIS,A. OIL SPILL RISK ANALYSIS FOR THE KUDIAK-ISLAND $ GEOLOGICAL SURVEY RESTON VA 99P. 1980

KUERTH,B.H

0995 WEBB,J.W., TANNER,G.T., KUERTH,B.H. OIL SPILL EFFECTS ON SMOOTH CORDGRASS IN GALVESTON-BAY TEXAS $ TEXAS A AND M UNIV DEPT RANGE SCI COLLEGE STN TX CONTRIBUTIONS IN MARINE SCIENCE 24 P. 107-114 1981

KOGURE,Y

0603 NOMURA,A., MORITA,Y., KOGURE,Y. NITROGEN COMPOUNDS IN PETROLEUM "EM-DASH" 4 DISTRIBUTION PROFILES OF NITROGEN COMPOUNDS IN PETROLEUM BY SOLID-LIQUID CHROMATOGRAPHY $ NATL CHEM LAB FOR IND TOKYO JPN BULL CHEM SOC JPN 52 (3) P. 817-820 1979

KONDO,G

0411 KONDO,G. MATERIALS FOR REMOVAL OF WASTE OIL 2 OIL ADSORBENTS $ KOBE SHOSEN UNIV KOBE JAPAN KANKYO GIJUTSU 9 (6) P. 446-51 1980

KOOMAN,C

0917 KOOMAN,C., DEBRUIN,D., SMIT,J.A. TRAFFIC ACCIDENTS AND SAFETY MEASURES ON DUTCH WATERWAYS $ PUBL WORKS DEPT DELTA DEPT DIV ENGN BERGEN OP ZOOM NETHERLANDS IN: PERMANENT INT ASSOC NAV CONGRESSES 11 P. 313-333 1981

KOOPMAN,R.P

0910 HOGAN,W.J., ERMAK,D.L., KOOPMAN,R.P., LUDWIGSON,J. (ED.) PREDICTING THE HAZARDS FROM LARGE SPILLS OF LIQUEFIED-GASEOUS-FUELS $ LAWRENCE LIVERMORE NATL LAB LIVERMORE CA HAZARD MATER SPILLS CONF PROC P. 391-8 1982

KOOPS,W

0403 KERKHOFF,M., FRINTROP,P., KOOPS,W. POLLUTION OF THE DUTCH COAST BY OIL FROM THE "ELENI-V" JULY 1978 $ NETH INST FOR FISH INVEST IJMUIDEN SCI TOTAL ENVIRON 19 (1) P. 33-39 1981

KORETSKII,A.F

0731 SMIRNOVA,A.V., PLOTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

KORNBERG,H

0918 KORNBERG,H. OIL POLLUTION OF THE SEA AN ASSESSMENT $ ROYAL COMMISS ENVIRONM POLLUT LONDON ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 429-432 1982

KOROLYOV,A.M

0402 KOROLYOV,A.M., SYOMINA,T.K., NAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ MV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

KOSTYLEW,G.P

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

KOTHARI,K.N

0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.N. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

KOTOV,A.M

0499 MAZMANIDI,N.D., KOTOV,A.M. EFFECT OF PETROLEUM DISPERSANTS ON THE SURVIVAL RATE AND SOME PHYSIOLOGICAL-BIOCHEMICAL BLOOD INDEXES OF THE BLACK SEA SEA-BASS (SPICARA-SMARIS-L.) $ USES NAUCHNO-ISSLED INST MORSK RUBN KHOZ OKEANOGR BATUMI USSR GIDROBIOL ZH 17 (1) P. 74-8 1981

KOVZUN,A.A

0061 BELKEVICH,P.I., KOVZUN,A.A., SOBOL,M.I., CHRISTOVA,L.R. ORGANOPHILIC-PEAT SORBENT FOR REMOVING OILS AND PETROLEUM PRODUCTS FROM WASTEWATERS $ ACAD SCI BESSR INST PEAT MINSK BESSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (11) P. 1796-1799 1980

KUZAK,V.A

0827 ZAKUPRA,V.A., KUZAK,V.A., VYKHRESTYUK,N.I., TKACHENKO,D.A. SEPARATION OF PETROLEUM CUTS AND LUBE OILS WITH DETERGENT ADDITIVES BY MEANS OF 2 STAGE CONTINUOUS LIQUID-CHROMATOGRAPHY $ ALL UNION PETR REFINING AND PETROCHEM IND RES AND DESIGN INST MOSCOW CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (11-1) P. 846-850 1979

KRAHN,M.M

0484 MALINS,D.C., KRAHN,M.M., BROWN,D.W., MACLEOD,W.D., COLLIER,T.K. ANALYSIS FOR PETROLEUM PRODUCTS IN MARINE ENVIRONMENTS $ NOAA NATL MARINE FISHERIES SERV NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA HELGOLANDER MEERESUNTER- SUCHUNGEN 33 (1-4) P. 257-271 1980

KREINHEDER,J.R

0413 KREINHEDER,J.R. COASTAL PROTECTION FUNDS: A COMPARATIVE ANALYSIS OF STATE AND FEDERAL OIL SPILL LAWS AND LEGISLATION $ ALASKA STATE LEGISLATURE HOUSE RESEARCH AGENCY JUNEAU PB-81-194581 62P. 1981

KRISHNAN,R

0414 KRISHNAN,R., HLAVIN,R. ALTERNATIVES FOR HAZARDOUS WASTE MANAGEMENT IN THE PETROLEUM REFINING INDUSTRY $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-113417 245P. 1979

0686 RUCKENSTEIN,E., KRISHNAN,R. EFFECT OF ELECTROLYTES AND MIXTURES OF SURFACTANTS ON THE OIL-WATER INTERFACIAL-TENSION AND THEIR ROLE IN FORMATION OF MICRO-EMULSIONS $ SUNY BUFFALO FAC ENGN AND APPL SCI BUFFALO NY JOURNAL OF COLLOID AND INTERFACE SCIENCE 76 (1) P. 201-211 1980

KRISTMANSON,D.D

1033 MACKAY,D., KRISTMANSON,D.D., PICOT,J.J.C., SMEDLEY,J.B. THEORETICAL ASSESSMENT AND DESIGN STUDY OF THE AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-6 OTTAWA ONTARIO 1980

KRUGH,F
0035 AUDUNSUN,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KRUGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

KRUPOTKIN,M.A
0978 SHEVELEVA,T.Y., KRUPOTKIN,M.A., LEUS,N.B. METHOD OF MEASURING THE THICKNESS OF AN OIL FILM ON A WATER BASIN $ SOV METEOROL HYDROL (3) P. 72-74 1980

KRUPA,A.A
0079 BEZORUDKO,O.V., KRUPA,A.A., MEDVEDEV,M.I., PASHCHENKO,A.A., TARASEVICH,Y. APPLICATION OF HYDROPHOBILIZED PERLITE FOR PURIFICATION OF SURFACE WATERS FROM OIL $ ACAD SCI UKSSR INST COLLOID CHEM AND WATER CHEM KIEV UKSSR UKRAINSKII KHIMICHESKII ZHURNAL 46 (1) P. 51-54 1980

KUCHERENKU,L.A
0415 KUCHERENKO,L.A., KAMYSHOVA,V.K. DEPENDENCE OF THE TOXIC AND PROTECTIVE PROPERTIES OF SHALE-OILS ON THEIR CONTENTS OF WATER SOLUBLE PHENOLS $ MV LOMONO SOV STATE UNIV MOSCOW JOURNAL OF APPLIED CHEMISTRY OF THE USSR 54 (1) P. 112-114 1981

KUDINOV,Y
0418 KUZNETSOV,A., GRITSKOV,V.S., KHOMYAKOV,V.M., KUDINOV,Y. DISPERSION SYSTEM FOR PREPARING OIL-WATER EMULSIONS $ METALLURGIST 23 (7-8) P. 554-556 1979

KUMAR,H.D
0287 GAUER,J.P., KUMAR,H.D. GROWTH RESPONSE OF FOUR MICRO-ALGAE TO THREE CRUDE-OILS AND A FURNACE-OIL $ BANARAS HINDU UNIV VARANASI INDIA ENVIRON POLLUT SER A 25 (1) P. 77-85 1981

KURDISTAN
1051 DAWE,B.R., PARASHAR,S.K., RYAN,J.P., WORSFOLD,R.D. THE USE OF SATELLITE IMAGERY FOR TRACKING THE KURDISTAN OIL SPILL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-6 OTTAWA ONTARIO 1981

1052 O'NEIL,R.A., THOMSON,V., NEVILLE,R.A. REMOTE-SENSING OF OIL DURING THE KURDISTAN SPILL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-25 OTTAWA ONTARIO 1981

KUREISHY,I.W
0322 GUPTA,R.S., KUREISHY,I.W. PRESENT STATE OF OIL POLLUTION IN THE NORTHERN INDIAN OCEAN $ NATL INST OCEANOG DONA PAULA GOA DAMAN AND DIU INDIA MARINE POLLUTION BULLETIN 12 (9) P. 295-301 1981

KURIOKA,Y
0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

KUSHIDA,R.O

0084 BJORKLUND,R.A., KUSHIDA,R.O. FLASHBACK FLAME-ARRESTER DEVICES FOR FUEL CARGO TANK VAPOR VENTS $ COAST GUARD WASHINGTON, D.C. AD-A100-040/5 127P. 1981

KUTOWY,O

0416 KUTOWY,O., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES COUNC OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

KUWABARA,K

0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

KUWAIT

0623 URDZIK,C.J., GARDFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSWORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

KUWAIT-CRUDE-OIL

0205 CUCCI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB "EURYPANOPEJS-DEPRESSUS" $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203508 9P. 1979

KUZNETSOV,A

0418 KUZNETSOV,A., GRITSKOV,V.S., KHOMYAKOV,V.M., KUDINOV,Y. DISPERSION SYSTEM FOR PREPARING OIL-WATER EMULSIONS $ METALLURGIST 23 (7-8) P. 554-556 1979

KUZNETSOV,V.A

0174 CHURSHUKOV,E.S., MAIKO,L.P., ZAKHAROVA,N.N., KUZNETSOV,V.A. EVALUATION OF WATER-DISPLACING ABILITY OF OILS BY ELECTROCHEMICAL METHOD $ CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (9-10) P. 766-767 1979

KWAMENA,F.A

0067 BRASSARD,C., HARRISON,P., KWAMENA,F.A., WRIGHT,D. ONSHORE IMPACTS OF OFFSHORE HYDROCARBON DEVELOPMENT AN ANNOTATED BIBLIOGRAPHY $ ENVIRONMENT CANADA OTTAWA ONTARIO 1981

KWAN,P.W

0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-168 1981

L'ABER-WRAC'H

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.R., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

LA-JOLLA

0705 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME I $ PB-80-143704 203P. 1979

0706 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 1-7 $ PB-80-143712 400P. 1979

0707 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 8-15 $ PB-80-143720 395P. 1979

0708 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORTS 10-19 $ PB-80-143753 596P. 1979

0709 SCIENCE APPLICATIONS INC LA-JOLLA CA SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME III METHODOLOGY REPORTS $ PB-80-166119 237P. 1979

LAGERKVIST,S

0887 FOGELQVIST,E., LAGERKVIST,S., LINDRUTH,P. PETROLEUM HYDROCARBONS IN THE ARCTIC OCEAN SURFACE WATER $ GOTHENBURG UNIV DEPT ANALYT AND MARINE CHEM GOTHENBURG SWEDEN MARINE POLLUTION BULLETIN 13 (6) P. 211-213 1982

LAGOURETTE,B

0177 CLAUSSE,M., BONED,C., PEYRELASSE,J., LAGOURETTE,B., MCCLEAN,V., SHEPPARD,R.J. DIELECTRIC AND CONDUCTIVE PROPERTIES OF WATER-IN-OIL TYPE MICRO-EMULSIONS $ UNIV PAU AND PAYS ADOUR INST RECH SCI DEPT PHYS THERMODYNAM LAB PAU FRANCE IN: SHAH,D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 199-228 1981

LAKE
0930 MCKINLEY,V.L., FEDERLE,T.W., VESTAL,J.R. EFFECTS OF PETROLEUM HYDROCARBONS ON PLANT LITTER MICROBIOTA IN AN ARCTIC LAKE $ UNIV CINCINNATI DEPT BIOL SCI CINCINNATI OH APPLIED AND ENVIRONMENTAL MICROBIOLOGY 43 (1) P. 129-135 1982

0933 MEYERS,P.A., TAKEUCHI,N., ROBBINS,J.A. PETROLEUM HYDROCARBONS IN SEDIMENTS OF SAGINAW-BAY LAKE HURON $ UNIV OF MICH ANN ARBOR USA J GREAT LAKES RES 6 (4) P. 315-320 1980

LAKE,J
0224 DUNTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT HIU-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

LAKE,J.L
0221 DIMOCK,C.W., LAKE,J.L., NORWOOD,C.B., BOWEN,R.D., HOFFMAN,E.J. FIELD AND LABORATORY METHODS FOR INVESTIGATING A MARINE GASOLINE SPILL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-185712 5P. 1981

0420 LAKE,J.L., DIMOCK,C.W., NORWOOD,C.B. COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ EPA NARRAGANSETT RI ADV CHEM SER 185 PET IN THE MAR ENVIRON SYMP AT THE MEET OF THE ACS P. 343-360 1980

0421 LAKE,J.L., DIMOCK,C.W., NORWOOD,C.B. A COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-165839 20P. 1981

LALIBERTE,J
1024 HUNCH,J.N., HARLAND,R.C., LALIBERTE,J. MICROBIOLOGY I EFFECTS OF OIL ON BACTERIAL ACTIVITY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-5 OTTAWA ONTARIO 1981

LAMARCK
0623 ORDZIE,C.J., GARDFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

LAMB,M.F
0257 PEELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

LAMBERT,W.P
0129 SMALL,M.J., LAMBERT,W.P. A STOCHASTIC PROCEDURE FOR ALLOCATION OF FUNDS FOR TOXICOLOGICAL AND ENVIRONMENTAL RESEARCH ON THE BASIS OF HAZARD ASSESSMENT $ ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB FORT DETRICK MD AD-A091-688/2 8P. 1979

LAMOTTE,M
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

LAMPHEAR,F.C
0919 LAMPHEAR,F.C., RESTREPO,C.E. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

0974 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME I $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217852 332P. 1982

0975 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME II EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA

LANCASTER-SOUND
1015 MARKO,J.R. DEEP-WATER BLOWOUT TRAJECTORY MODELS FOR THE LANCASTER-SOUND REGION $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-2 OTTAWA ONTARIO 1982

LAND
0119 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA EXECUTIVE SUMMARY $ PB-82-106352 45P. 1980

0120 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA TECHNICAL ANALYSIS $ PB-82-106360 675P. 1980

0121 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA SUPPLEMENT $ PB-82-106378 90P. 1980

0122 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY EXECUTIVE SUMMARY 1977 $ PB-82-106692 94P. 1978

0123 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME I CHAPTERS 1-10 $ PB-81-106718 660P. 1979

LAND

0124 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME II CHAPTERS 11-21 $ PB-81-106726 604P. 1979

0125 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 9 BIOLOGICAL STUDIES $ PB-82-117474 675P. 1981

0126 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 10 BIOLOGICAL STUDIES $ PB-82-124975 790P. 1981

0127 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 11 BIOLOGICAL STUDIES $ PB-82-124983 675P. 1981

0128 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975 BIOLOGY AND CHEMISTRY $ PB-81-137689 625P. 1976

0129 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166093 577P. 1979

0130 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 2 REPORT 18-24 $ PB-80-166101 720P. 1979

0131 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166127 795P. 1979

0132 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 2 REPORTS 18-24 $ PB-80-166135 647P. 1979

0133 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME 1 BOOK 3 CHAPTERS XV-XX $ PB-80-177488 990P. 1977

0134 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME II MASTER BIBLIOGRAPHY INDEX ACKNOWLEDGEMENTS $ PB-80-177496 516P. 1977

0135 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME III APPENDIX A, B AND C $ PB-80-177504 511P. 1977

LAND

0136 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF NORTHEAST GULF OF ALASKA INTERIM SYNTHESIS REPORT $ PB-81-177883 298P. 1980

0137 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-186810 774P. 1979

0138 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME III RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186836 643P. 1979

0139 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF THE YEAR ENDING MARCH 1979 VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186844 669P. 1979

0140 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME V RECEPTORS MICROBIOLOGY CONTAMINANT BASELINES $ PB-80-186851 703P. 1979

0141 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VII TRANSPORT $ PB-80-186877 569P. 1979

0142 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VIII TRANSPORT $ PB-80-186885 592P. 1979

0143 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME IX HAZARDS $ PB-80-186393 686P. 1979

0144 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME X HAZARDS DATA MANAGEMENT $ PB-80-186901 522P. 1979

0145 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF EXECUTIVE SUMMARY APRIL 1978-MARCH 1979 $ PB-80-186919 112P. 1979

0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

LAND

0147 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME II: RECEPTORS MICROBIOLOGY ECOLOGICAL PROCESSES $ PB-81-196271 521P. 1980

0148 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME III: EFFECTS AND CONTAMINANT BASELINES $ PB-81-196289 359P. 1980

0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

0150 BUREAU OF LAND MANAGEMENT NEW-YORK ASSESSMENT OF SPACE AND USE CONFLICTS BETWEEN THE FISHING AND OIL INDUSTRIES VOLUME II ENGINEERING ASSESSMENT $ PB-81-215972 158P. 1981

0230 DUFFY,J.J., PEAKE,E., MOHTADI,M.F. OIL SPILLS ON LAND AS POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION $ UNIV CALGARY CALGARY CANADA ENVIRON INT 3 (2) P. 107-20 1980

0301 GIDEON,D.N., PUTNAM,A.A. DISPERSION HAZARD FOR SPILLS OF LNG ON LAND AND ON WATER $ BATTELLE COLUMBUS LAB OHIO CRYOGENICS 17 (1) P. 9-15 1977

0800 WAHBEH,N. DISPOSAL OF OILY WASTE FROM OIL SPILLS BY LAND FARMING $ HAZARDOUS MAT MANAGEMENT INC CASTRO VALLEY CA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 29-35 1980

0854 BROWN,K.W., BRAWAND,M., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 251-261 1982

0858 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 1,2 AND 3 $ PB82-167784 218P. 1981

0859 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 4 AND 5 $ PB82-167792 210P. 1981

0860 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 6 AND 7 $ PB82-167800 522P. 1981

0861 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 8 $ PB82-167818 840P. 1981

LAND

0862 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME II $ PB82-167826 175P. 1981

0863 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME III EXECUTIVE SUMMARY $ PB82-167834 36P. 1981

1001 YANG,W.F., CHAU,A., SMALLWOOD,C. JR. LAND TREATMENT OF OILY WASTES REDUCTION OF CRUDE-OIL IN SOILS $ INST ENVIRON ENG NATL TAIWAN UNIV TAIPEI TAIWAN TW PROC IND WASTE CONF 36 P. 0549 1982

LANDFILL

0674 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

LANDSAT

0215 DEUTSCH,M., VOLLMERS,R.R., DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

0257 PEELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

LANFEAR,K.J

0920 LANFEAR,K.J., AMSTUTZ,D.E. ENVIRONMENTAL STUDIES FOR OILSPILL TRAJECTORY MODELING IN THE SOUTH-EASTERN U.S. OUTER CONTINENTAL SHELF LEASING AREA $ US GEOL SURV USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 487-495 1981

0986 SAMUELS,W.B., LANFEAR,K.J., MAKASSIS,A. OIL SPILL RISK ANALYSIS FOR THE KODIAK-ISLAND $ GEOLOGICAL SURVEY RESTON VA 99P. 1980

LANGEVIN,D

0653 POUCHELON,A., MEUNIER,J., LANGEVIN,D., CHATENAY,D., LAZABAT,A.M. LOW INTERFACIAL-TENSIONS IN 3 PHASE SYSTEMS OBTAINED WITH OIL-WATER- SURFACTANT MIXTURES $ ECOLE NORM SUPER SPECT HERTZIENNE LAB PARIS FRANCE CHEMICAL PHYSICS LETTERS 76 (2) P. 277-281 1980

LANGFELDT,J.N

1134 LANGFELDT,J.N., WOLD,M. FULL SCALE TESTS WITH OIL RECOVERY SYSTEMS OFFSHORE $ OIL POLLUTION CONTROL - R AND D PROGRAM OSLO NORWAY 1981

LAPERRIER,J.D

0507 MCKENDRICK,J.D., LAPERRIER,J.D., LOYNACHAN,T.E. COLD CLIMATE OIL SPILLS: A TERRESTRIAL AND FRESHWATER RESEARCH REVIEW $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-159121 93P. 1981

LAPOUYADE,R
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

LARGE-SCALE
0476 LYSVJ,I., RUSHWORTH,R., MELVOLD,R., FARLOW,J. EFFECTIVENESS OF A LARGE-SCALE BALLAST TREATMENT PROCESS $ ROCKWELL INT NEWBURY PARK CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 133-137 1979

LARGE,R
0422 LARGE,R. OIL POLLUTION AT SEA $ HAZLETON LABS EUROPE LTD MASSPEC ANALYT STROUD GLOUCESTERSHIRE ENGLAND CHEMISTRY IN BRITAIN 17 (9) 406P. 1981

LARSON,D.M
0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCULES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

LARSON,R.A
0423 LARSON,R.A., HUNT,L.L., BLANKENSHIP,D.W. FORMATION OF TOXIC PRODUCTS FROM A #2-FUEL-OIL BY PHOTOOXIDATION $ STROUD WATER RES CENT OF ACAD OF NAT SCI OF PHILADELPHIA AVONDALE ENVIRON SCI TECHNOL 11 (5) P. 492-496 1977

LARSONNEUR,C
0076 BESLIER,A., BIRRIEN,J.L., CABIOCH,L., LARSONNEUR,C., LEBURGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL 6 TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

LARSSON,U
0383 JOHANSSON,S., LARSSON,U., BOEHM,P. THE ISESIS OIL SPILL IMPACT ON THE PELAGIC ECOSYSTEM $ ASKO LAB INST MARINE RES UNIV STOCKHOLM SWED MAR POLLUT BULL 11 (D) P. 284-293 1980

LARVAE
0384 JOHNS,D.M., PECHENIK,J.A. INFLUENCE OF THE WATER-ACCOMMODATED FRACTION OF NO.-2-FUEL-OIL ON ENERGETICS OF "CANCER-IRRORATUS" LARVAE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT, RI PB-81-185720 13P. 1981

LARVAL
0205 LUCCI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB "EURYPANOPEJS-DEPRESSUS" $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203508 9P. 1979

LASDAY,A.M
0424 LASDAY,A.M. ASSESSMENT OF RISK TO MARINE BIOTA DURING AN OIL SPILL $ TEXACO INC USA PROC COUNC ECON AIME 108TH ANNU MEET P. 25-3 1979

LASER
0218 DICK,R., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-40 1980

0338 HARTMANN,B., STEINVALL,O., WIDEN,A. TESTS OF LASER INDUCED FLUORESCENCE FROM ALGAE AT SEA $ LASERINDUCERAD FLUORESCENS FRAAN ALGER RESULTAT FRAAN ETT BAATBUR RESEARCH INST OF NATIONAL DEFENCE STOCKHOLM (SWEDEN) 52P. 1979

0359 HUGE,F.E., SWIFT,R.N. OIL FILM THICKNESS MEASUREMENT USING AIRBORNE LASER INDUCED WATER RAMAN BACKSCATTER $ NASA WALLOPS FLIGHT CENT WALLOPS ISL VA APPL OPT 19 (19) P. 3269-3281 1980

1005 RAYNER,D.M. EFFECT OF SURFACE TEMPERATURE ON THE REMOTE-SENSING OF OIL USING LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-2 OTTAWA ONTARIO 1980

1006 RAYNER,D.M. THIN OIL FILM DETECTION LIMITS OF LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-3 OTTAWA ONTARIO 1980

1094 O'NEIL,L.B., RAYNER,D.M. FIELD PERFORMANCE OF A LASER FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ REPRINT FROM APPLIED OPTICS 19 (6) P. 863-70 1980

1127 O'NEIL,R.A., HUGE,F.E., BRISTOW,M.P.F. THE CURRENT STATUS OF AIRBORNE LASER FLUOROSENSING $ ENVIRONMENT CANADA ANN ARBOR MICHIGAN 1981

LASER-FLUOROSENSOR
0621 O'NEIL,R.A., BUJA-BIJUNAS,L., RAYNER,D.M. FIELD PERFORMANCE OF A LASER-FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ DEP OF ENERGY MINES AND RESOUR OTTAWA APPL OPT 19 (6) P. 863-870 1980

LASER-RAMAN
0171 CHANG,R.K., BENNER,R.E. LASER-RAMAN POINT MONITORING OF METHANE VAPOR IN THE LNG STORAGE FIELD $ DEP ENG APPL SCI YALE UNIV NEW HAVEN CT PB-80-205347 39P. 1979

LASETER,J.L
0224 DONTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

LASETER,J.L

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.R., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

LAU,Y.L

0426 LAU,Y.L. OIL BOOMS AND SKIMMER WALLS A COMPARISON DISCUSSION $ NATL WATER RES INST DIV HYDR RES ENVIRONM HYDR SECT BURLINGTON ONTARIO CAN JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION- ASCE 107 (3) 605P. 1981

0427 LAU,Y.L., ENGEL,P. CONTROL OF OIL SLICKS IN FLOWING WATER USING AIR BUBBLE BARRIERS $ NATL WATER RES INST DIV HYDRAUL RES BURLINGTON ONTARIO CANADA CANADIAN JOURNAL OF CIVIL ENGINEERING 7 (2) P. 397-405 1980

LAUBIER,L

0428 LAUBIER,L. AMOCO-CADIZ OIL SPILL: AN ECOLOGICAL IMPACT STUDY $ CENT NATL POUR L'EXPLOIT DES OCEANS BRETAGNE FR AMBIO 9 (6) P. 268-276 1980

LAUGHLIN,R.B

0429 LAUGHLIN,R.B. JR., NG,J., GUARD,H.E. HORMESIS: A RESPONSE TO LOW ENVIRONMENTAL CONCENTRATIONS OF PETROLEUM HYDROCARBONS $ NAVAL BIOSCIENCES LAB OAKLAND CA AD-A097-079/8 4P. 1980

LAW

0564 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OCEAN LAW 1977-MAY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-807349 108P. 1981

LAW,R.J

0086 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 1 OIL IN WATERS AND SEDIMENTS $ MINIST AGRIC FISH FOOD FISH LAB REMEBRANCE AVE BURNHAM-ON-CROUCH ESSEX ENGL UK MAR POLLUT BULL 11 (7) P. 199-204 1980

0087 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 2 BIOLOGICAL EFFECTS $ MINISTRY AGRIC FISHERIES FOOD FISHERIES LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX UK MAR POLLUT BULL 11 (8) P. 217-220 1980

0088 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL RETURN TO NORMAL CONDITIONS $ MINISTRY OF AGRIC FISHERIES AND FOOD FISHERIES LAB REMEMBRANCE AVE BURNHAM-ON-CROUCH ESSEX UK MAR POLLUT BULL 12 (4) P. 126-130 1981

LAWLER,G.C
0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.K., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

LAWRENCE,W.H.R
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KUSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

LAWS
0413 KREINHEDER,J.R. COASTAL PROTECTION FUNDS: A COMPARATIVE ANALYSIS OF STATE AND FEDERAL OIL SPILL LAWS AND LEGISLATION $ ALASKA STATE LEGISLATURE HOUSE RESEARCH AGENCY JUNEAU PB-81-194581 62P. 1981

LAWSON,H.P
0385 JOHNSON,D.W., MARTINSEN,W.E., CAVIN,W.D., CHILTON,P.D., LAWSON,H.P. CONTROL AND EXTINGUISHMENT OF LPG FIRES FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 124P. 1980

LAYER
0836 ARST,K.H.Y., KARD,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

LAYNE,M.D
0430 LAYNE,M.D. TEST AND EVALUATION OF THE TRECAN INCINERATOR $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A099-527/4 112P. 1981

LEA,B.N
1055 LEA,B.N. FIELD EVALUATION OF OIL SPILL TRACKING DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-28 OTTAWA ONTARIO 1982

1090 LEA,B.N. OCEANOGRAPHIC STUDIES IN SUPPORT OF AN OFFSHORE DISPERSANT TRIAL $ DEBROCKY SEATECH (NFLD) LTD NEWFOUNDLAND CANADA 1982

LEA,J.A
0739 SUOM,A., MARTIN,H.R., LEA,J.A. PASSIVE ACOUSTIC DETECTION OF GAS LEAKS IN BURIED PIPES $ STATE UNIV OF NY BUFFALO ASME PAP N 80-WA/NC-17 FOR MEET 10P. 1980

LEACHING
0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

LEAK
0573 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA RAPID LEAK DETECTION WITH LIQUID-CRYSTALS: SIMPLE TEST PROCEDURE IS INEXPENSIVE AND ACCURATE $ PB-80-971300 1P.

0636 PASCHALL,W.R. OPERATING EXPERIENCE FOR A GAS PIPELINE LEAK DETECTION SYSTEM $ LONE STAR GAS CO SAGINAW TX PROC INT SCH HYDROCARBON MEAS 56 P. 557-9 1981

0826 YOUNG,B.S., GEMICI,Y. FLOW MONITORING FOR LEAK DETECTION $ FOXBORO MUNICIPAL SALES INC FOXBORO MA IN: INSTRUMENT SOC AMER ADVANCES IN INSTRUMENTATION 35 PT 1 P. 497-502 1980

LEAK-DETECTION
0250 EYNON,S.B. LINE LEAK-DETECTION METHODS UPDATED $ HEATH CONSULTANTS INC STOUGHTON MA OIL GAS J 78 (37) P. 205-6 1980

LEAKAGE
0346 HENRY,M.F. UNDERGROUND LEAKAGE OF HYDROCARBONS AN OVERVIEW OF A POTENTIAL FIRE PROBLEM $ FIRE J (BOSTON) 75 (2) P. 91-94 1981

LEAKING
0259 FERGUSON,J.D. FORMATION OF DIAGENETIC ALTERATION ZONES BY LEAKING RESERVOIR HYDROCARBONS OVER 3 OIL-FIELDS IN OKLAHOMA $ GULF OIL EXPLORAT AND PROD CO HOUSTON TX AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (5) 924P. 1981

LEAKS
0406 KLAIBER,T. TESTS FOR DETECTING LEAKS IN PETROLEUM PIPELINES $ TECHNISCHES MESSEN 47 (4) 157P. 1980

0521 MISHINA,L.A. METHOD FOR THE DETECTION OF GAS LEAKS $ USSR GAZOV PROM-ST SER: ISPOL'Z GAZA NAR KHOZ (REF INF) (6) P. 28-31 1981

0638 PAUL,R., DELCARTE,E., TILMAN,J., GODEFROID,C. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF STREET TREES $ DEP BIOL VEG THEOR APPL FAC SCI AGRON ETAT GEMBLOUX BELG TRIB CEBEDEAU 33 (445) P. 547-53 1980

0670 RICHTER,M., KALLENOWSKY,E. A METHOD SAVING EXCAVATION WORK FOR REPAIRING LEAKS IN LOW PRESSURE GAS PIPELINES $ BRENNSTOFFINST FREIBERG FACHBEREICH LEIPZIG LEIPZIG GER ENERGIETECHNIK 31 (2) P. 58-61 1981

0739 SOOM,A., MARTIN,H.R., LEA,J.A. PASSIVE ACOUSTIC DETECTION OF GAS LEAKS IN BURIED PIPES $ STATE UNIV OF NY BUFFALO ASME PAP N 80-WA/NC-17 FOR MEET 10P. 1980

1041 CORROSION SERVICE COMPANY LIMITED EVALUATION AND PREVENTION OF CORROSION LEAKS ON BURIED STORAGE TANKS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-14 OTTAWA ONTARIO 1981

LEBACK,W.G

0431 LEBACK,W.G. CARRIAGE OF LNG "EM-DASH" THE STATE OF THE ART $ EL PASO LNG CO TEX PROC OF THE TANKER CONF TARPON SPRINGS FLA P. 174-201 1978

LEBOFF,J.P

0156 BYROADE,J.D., TWEDELL,A.M., LEBOFF,J.P. HANDBOOK FOR OIL SPILL PROTECTION AND CLEANUP PRIORITIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-183394 145P. 1981

LEBURGNE,L

0076 BESLIER,A., BIRRIEN,J.L., CABIOCH,L., LARSONNEUR,C., LEBURGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

LECOR,J.R

0690 SAMAIN,J.F., MOAL,J., COUM,A., LECOR,J.R., DANIEL,J.Y. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON ZOOPLANKTON A NEW POSSIBILITY OF ECOPHYSIOLOGICAL SURVEY $ CTR OCEANOL BRETAGNE BP F-29273 BREST FRANCE HELGOLANDER MEERESUNTERSUCH- UNGEN 33 (1-4) P. 225-235 1980

LEE,K.F

0432 LEE,K.F., DORNSEIF,B., GUNSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

0433 LEE,R.F. PROCESSES AFFECTING THE FATE OF OIL IN THE SEA $ SKIDAWAY INST OCEANOGR SAVANNAH GA ELSEVIER OCEANOGR SER (AMSTERDAM) 27A NO. (MAR ENVIRON POLLUT VI HYDROCARBONS) P. 337-51, 531-68 1980

LEE,W.H

0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

0435 LEE,W.H. BEHAVIOR OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT PRINCE-WILLIAM-SOUND ALASKA $ LOS ALAMOS NATL LAB LOS ALAMOS NM TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY 38 P. 101-102 1981

LEE,W.Y

0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

LEE,W.Y

0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TECHNICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

0438 LEE,W.Y., MORRIS,A., BOATWRIGHT,D. MEXICAN OIL SPILL A TOXICITY STUDY OF OIL ACCOMMODATED IN SEAWATER ON MARINE-INVERTEBRATES $ UNIV TEXAS INST MARINE SCI PORT ARANSAS MARINE LAB PORT ARANSAS TX MARINE POLLUTION BULLETIN 11 (8) P. 231-234 1980

LEENHEER,J.A

0439 LEENHEER,J.A., STUBER,H.A. MIGRATION THROUGH SOIL OF ORGANIC SOLUTES IN AN OIL-SHALE PROCESS WATER $ US GEOL SURVEY DENVER FED CTR DENVER CO ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (12) P. 1467-1475 1981

1003 LEENHEER,J.A., STUBER,H.A., NOYES,T.I. CHEMICAL AND PHYSICAL INTERACTIONS OF AN IN SITU OIL-SHALE PROCESS WATER WITH A SURFACE SOIL $ US GEOL SURV DENVER COLO OIL SHALE SYMP PROC 14TH GOLDEN COLO P. 357-375 1981

LEES,F.P

0440 LEES,F.P. SOME ASPECTS OF HAZARD SURVEY AND ASSESSMENT $ LOUGHBOROUGH UNIV OF TECHNOL LEICESTERSHIRE ENGL CHEM ENG (LONDON) (363) P. 736-741 1980

LEFEVRE,J

0692 SAMAIN,J.F., MOAL,J., DANIEL,J.Y., BOUCHER,J., LEFEVRE,J. ECOPHYSIOLOGICAL EFFECTS OF OIL SPILLS FROM AMOCO-CADIZ ON PELAGIC COMMUNITIES PRELIMINARY RESULTS $ CENT OCEANOL DE BRETAGNE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 175-185 1979

LEGAL

0951 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS: LEGAL ASPECTS 1977-MAY 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-866203 165P. 1982

0952 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS: LEGAL ASPECTS 1977-MAY 1982 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB82-866211 87P. 1982

LEGISLATION

0413 KREINHEDER,J.R. COASTAL PROTECTION FUNDS: A COMPARATIVE ANALYSIS OF STATE AND FEDERAL OIL SPILL LAWS AND LEGISLATION $ ALASKA STATE LEGISLATURE HOUSE RESEARCH AGENCY JUNEAU PB-81-194581 62P. 1981

LEGLISE,M

0441 LEGLISE,M., RAGUENES,G. SURVEY ON EFFECTS OF AMOCO-CADIZ OIL SPILL ON EDIBLE CRUSTACEANS IN POLLUTED AREAS $ INST SCI TECH PECHES MARITIMES NANTES FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 775-87 1979

LEHMANN,E.J

0442 LEHMANN,E.J. (ED) OIL BASE SEPARATORS (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ NTIS SPRINGFIELD VA PB-80-801947 132P. 1979

0443 LEHMANN,E.J. (ED) OIL WATER SEPARATORS (CITATIONS FROM THE NTIS DATA BASE) $ NTIS SPRINGFIELD VA PB-80-801939 148P. 1979

LEHR,W.J

0444 LEHR,W.J., BELEN,M.S., CEKIRGE,H.M. SIMULATED OIL SPILLS AT 2 OFFSHORE FIELDS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV RES INST DIV WATER AND ENVIRON DHAHRAN SAUDI ARABIA MARINE POLLUTION BULLETIN 12 (11) P. 371-374 1981

0445 LEHR,W.J., CEKIRGE,H.M. OIL SLICK MOVEMENTS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV DEPT MATH SCI DHAHRAN SAUDI ARABIA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 737-741 1981

LEIGH,J.T

0446 LEIGH,J.T. SPILL CONTAINMENT AND CLEANUP RESEARCH AND DEVELOPMENT $ US COAST GUARD OFF RES AND DEV ENVIRONM TECHNOL BRANCH WASHINGTON, D.C. MARINE TECHNOLOGY 18 (4) P. 342-343 1981

LEROUX,C

0754 SUCH,C., LEROUX,C. TREATMENT OF WASTES FROM OIL SPILLS $ LAB CENT PONTS AND CHAUSSEES PARIS FRANCE ENVIRONMENTAL TECHNOLOGY LETTERS 2 (4) P. 161-170 1981

LETHAL

0623 URDZIE,C.J., GARDFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

1018 FUY,M.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EL-82-3 OTTAWA ONTARIO 1982

LEUS,N.B

0978 SHEVELEVA,T.Y., KROPOTKIN,M.A., LEUS,N.B. METHOD OF MEASURING THE THICKNESS OF AN OIL FILM ON A WATER BASIN $ SOV METEOROL HYDROL (3) P. 72-74 1980

LEVELS

0048 BAKKE,T., JOHNSEN,T.M. RESPONSE OF A SUBTIDAL SEDIMENT COMMUNITY TO LOW LEVELS OF OIL HYDROCARBONS IN A NORWEGIAN FJORD $ INST OF MAR RES NORDNES-BERGEN NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 633-639 1979

0093 BUEHM,P.D., STEINHAUER,W.G., FIEST,D.L., MOSESMAN,N., BARAK,J.E., PERRY,G.M. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON POLLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMBRIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

LEVELS

0448 LEVY,E.M. BACKGROUND LEVELS OF PETROLEUM RESIDUES IN BAFFIN-BAY AND THE EASTERN CANADIAN-ARCTIC ROLE OF NATURAL SEEPAGE $ FISHERIES AND OCEANS CANADA BEDFORD INST OCEANOG ATLANTIC OCEANOG LAB DARTMOUTH NS CANADA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 345-362 1981

LEVENTHAL,F.D

0447 LEVENTHAL,F.D. THE BAY OF CAMPECHE OIL SPILL OBTAINING JURISDICTION OVER PETROLEOS-MEXICANOS UNDER THE FOREIGN SOVEREIGN IMMUNITIES ACT OF 1976 $ UNIV CALIF BERKELEY SCH LAW BERKELEY CA ECOLOGY LAW QUARTERLY 9 (2) P. 341-377 1981

LEVI,J.D

0790 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DE-ROUCKER,A., KELLY,K.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE REP (9) 52P. 1980

1113 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DEBROCKER,A., KELLY,K.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE 1980

LEVINA,R.M

0958 NESTEROVA,M.P., ANUFRIEVA,N.M., LEVINA,R.M. INVESTIGATION OF CHEMICAL AGENTS CONTAINING THE SPREAD OF OIL ON A WATER SURFACE $ WATER RESOUR 8 (1) P. 85-91 1981

LEVITAN,W.M

0057 BECCASIO,A.D., WEISSBERG,G.H., REDFIELD,A.E., FREW,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

LEVY,E.M

0448 LEVY,E.M. BACKGROUND LEVELS OF PETROLEUM RESIDUES IN BAFFIN-BAY AND THE EASTERN CANADIAN-ARCTIC ROLE OF NATURAL SEEPAGE $ FISHERIES AND OCEANS CANADA BEDFORD INST OCEANOG ATLANTIC OCEANOG LAB DARTMOUTH NS CANADA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 345-362 1981

LI,S.W

0675 ROGERS,J.E., LI,S.W. MICROBIOLOGICAL ASPECTS OF THE GROUND DISPOSAL OF OIL-SHALE WASTES $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 7P. 1978

LIABILITY

0167 CARVEN,C.J. OIL SPILL LIABILITY AND COMPENSATION $ EXXON CORP NEW YORK NY PROC - OIL SPILL CONF LOS ANGELES CALIF P. 1-10 1979

LIBERIAN

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

LIBERIAN
0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

LICENSING
0364 HOUGHTON,W.J. LICENSING TOPICAL REPORT: APPLICATION OF PROBABILISTIC RISK ASSESSMENT IN THE SELECTION OF DESIGN BASIS ACCIDENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 50P. 1980

LICHTE,H.W
0449 LICHTE,H.W. PERFORMANCE TESTING OF THE SOVIET OIL/DEBRIS SKIMMER $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-244790 42P. 1981

0450 LICHTE,H.W., BRESLIN,M.K., SMITH,G.F., GRAHAM,D.J., URBAN,R.W. PERFORMANCE TESTING OF FOUR SKIMMING SYSTEMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101353 92P. 1981

0451 LICHTE,H.W. SKIMMING BARRIER PERFORMANCE EVALUATION: OFFSHORE VERSION AND HARBOR VERSION $ MASON AND HANGER-SILAS MASON CO LEONARDO NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 489-492 1979

0734 SMITH,G.W., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-163743 365P. 1981

0921 LICHTE,H.W., BORST,M., SMITH,G.F. TESTS OF THE SHELL SOCK SKIMMER ABOARD USNS POWHATAN $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OH P382-220849 92P. 1981

1103 SMITH,G.F., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1981

LIDGREN,K
1109 LIDGREN,K., NURRBY,S. OIL AND CHEMICAL POLLUTION FROM SHIPS ECONOMICS AND CONTROL MEASURES $ THE MINISTRY OF AGRICULTURE SWEDEN 1980

LIEBOW,E.B
0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

LIFE
0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

LIFE
0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

LIGHTERING
0821 WOLFSON,M.W. VLCC LIGHTERING OPERATIONS IN SOUTHERN CALIFORNIA $ US COAST GUARD MAR SAFETY OFF SAN DIEGO CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 119-120 1979

LILIE,R.H
0282 RUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE MACUF WITH CONCAWE REP 6/1 155P. 1981

1112 RUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE 1981

LIMITATION
0398 KARYDIS,M. THE TOXICITY OF CRUDE-OIL FOR THE MARINE ALGA SKELETONEMA-COSTATUM (GREVILLE) CLEVE IN RELATION TO NUTRIENT LIMITATION $ DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE HYDROBIOLOGIA 85 (2) P. 137-143 1981

LIMITS
1006 KAYNER,D.M. THIN OIL FILM DETECTION LIMITS OF LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-3 OTTAWA ONTARIO 1980

LIMNOLOGY
0054 BARSDATE,R.J., MILLER,M.C., ALEXANDER,V., VESTAL,J.R., HOBBIE,J.E. OIL SPILL EFFECTS (ON TUNDRA POND LIMNOLOGY) $ INST MAR SCI UNIV ALASKA FAIRBANKS AK US/IBP SYNTH SER 13 (LIMNOL TUNDRA PONDS: BARROW ALASKA) P. 388-406, 457-91 1980

LIN,J.I
0468 LIU,H.T., LIN,J.T. EFFECTS OF AN OIL SLICK ON WIND WAVES $ FLOW RES CO KENT WASH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 665-674 1979

LIND,C.D
0635 PARNAROUSKIS,M.C., TAYLOR,M.W., LIND,C.D., RAJ,P.P.K., CECE,J.M. VAPOR CLOUD EXPLOSION STUDY $ US COAST GUARD WASHINGTON, D.C. CONGR INT SUR LE GAZ NAT LIQUEFIE 6TH 2 16P. 1980

LINDBLOM,G.P
0453 LINDBLOM,G.P. LOGISTIC PLANNING FOR OIL SPILL CHEMICAL USE $ EXXON CHEM CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 453-458 1979

0502 MCCARTHY,L.T. JR., LINDBLOM,G.P., WALKER,H.F. CHEMICAL DISPERSANTS FOR THE CONTROL OF OIL SPILLS $ EPA EDISON NJ CHEMICAL DISPERSANTS FOR THE CONTROL OF OIL SPILLS WILLIAMSBURG VIRGINIA 1977

LINDEN,L
0454 LINDEN,C., ELMGREN,R., BOEHM,P. TSESIS OIL SPILL: ITS IMPACT ON THE COASTAL ECOSYSTEM OF THE BALTIC SEA $ SWED WATER AND AIR POLLUT RES INST NYKOPING AMBIO 8 (6) P. 244-253 1979

LINDEN,O
0605 NUTINI,M., MATTSSON,J., LINDEN,O. DISPERSAL AND EFFECTS OF THE ANTONIO-GRAMSCI OIL SPILL IN THE STOCKHOLM ARCHIPELAGO $ SWEDISH WATER AND AIR POLLUTION RESEARCH LAB FRYKSTA 32P. 1980

0912 JERNELOEV,A., LINDEN,O. IXTOC-I: A CASE STUDY OF THE WORLD'S LARGEST OIL SPILL $ SWED WATER AND AIR POLLUT RES INST STOCKHOLM AMBIO 10 (6) P. 299-306 1981

LINDENMUTH,W.T
0184 COHEN,S.H., LINDENMUTH,W.T., FARLOW,J.S. DEVELOPMENT AND TESTS OF AN AIR-JET OIL-BOOM $ HYDRONAUT INC LAUREL MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 483-487 1979

LINDROTH,P
0887 FOGELQVIST,E., LAGERKVIST,S., LINDROTH,P. PETROLEUM HYDROCARBONS IN THE ARCTIC OCEAN SURFACE WATER $ GOTHENBURG UNIV DEPT ANALYT AND MARINE CHEM GOTHENBURG SWEDEN MARINE POLLUTION BULLETIN 13 (6) P. 211-213 1982

LINDSTEDT-SIVA,J
0455 LINDSTEDT-SIVA,J. PREPARING FOR OIL SPILLS IN THE DELAWARE RIVER ESTUARY $ ATL RICHFIELD CO LOS ANGELES CALIF COASTAL ZONE '80 PROC OF THE SYMP ON COASTAL AND OCEAN MANAGE P. 294-311 1980

0456 LINDSTEDT-SIVA,J. PREPARING FOR OIL SPILLS PLANNING FOR OPTIMUM USE OF LIMITED RESOURCES $ ATLANT RICHFIELD CO LOS ANGELES CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 149-156 1981

0457 LINDSTEDT-SIVA,J. MINIMIZING THE ECOLOGICAL IMPACTS OF OIL SPILLS $ ATL RICHFIELD CO LOS ANGELES CALIF ENVIRON INT 3 (2) P. 185-188 1980

LINKINS,P
0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,U., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1980

LIPID
0437 LEE,M.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN MESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TECHNICA PORT ARANSAS MARINE LAB PORT ARANSAS IX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

LIQUEFACTION
0300 GIDDINGS,J.M., PARKHURST,B.R., GEHRS,C.W., MILLEMANN,R.E. TOXICITY OF A COAL LIQUEFACTION PRODUCT TO AQUATIC ORGANISMS $ OAK RIDGE NATL LAB TENN BULL ENVIRON CONTAM TOXICOL 25 (1) P. 1-6 1980

LIQUEFIED
0236 DEPARTMENT OF ENERGY, WASHINGTON, D.C. LIQUEFIED GASEOUS FUELS SAFETY AND ENVIRONMENTAL CONTROL ASSESSMENT PROGRAM: SECOND STATUS REPORT $ 229P. 1980

LIQUEFIED-GASEOUS-FUELS
0910 HUGAN,W.J., ERMAK,D.L., KOOPMAN,R.P., LUDWIGSON,J. (ED.) PREDICTING THE HAZARDS FROM LARGE SPILLS OF LIQUEFIED-GASEOUS-FUELS $ LAWRENCE LIVERMORE NATL LAB LIVERMORE CA HAZARD WATER SPILLS CONF PROC P. 391-8 1982

0960 O'NEAL,W.C., BIANCHINI,G.M., BLOCKER,R.E., HIPPLE,D.L., HUGAN,W.J. 500-M-EXP-3 SPILL TEST FACILITY FOR LIQUEFIED-GASEOUS-FUELS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 25P. 1981

LIQUEFIED-NATURAL-AND-PETROLEUM-GASES
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.K., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBOURS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

LIQUEFIED-NATURAL-GAS
0027 ANON. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ NAS WASHINGTON, D.C. PUBL NMAB NATL MATER ADVIS BOARD (US) (354) 357P. 1980

0183 COAST GUARD WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0241 DEPARTMENT OF ENERGY WASHINGTON, D.C. APPROACH TO LIQUEFIED-NATURAL-GAS (LNG) SAFETY AND ENVIRONMENTAL CONTROL RESEARCH $ 464P. 1978

0269 FLORIDA UNIV GAINESVILLE DEPT OF ZOOLOGY THE DISSEMINATION AND COMBUSTION OF UNCONFINED LIQUEFIED-NATURAL-GAS CLOUDS $ AD-A089-315/6 59P. 1979

0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.M. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

0530 MURRAY,F.W., JAQUETTE,D.L., KING,W.S. HAZARDS ASSOCIATED WITH THE IMPORTATION OF LIQUEFIED-NATURAL-GAS $ RAND CORP REP 69P. 1976

0536 NATIONAL BUREAU OF STANDARDS BOULDER COLO LIQUEFIED-NATURAL-GAS A LITERATURE SURVEY $ 4 ISSUES 1972

0537 NATIONAL BUREAU OF STANDARDS BOULDER COLO LIQUEFIED-NATURAL-GAS TECHNOLOGY $ 54P. 1973

LIQUEFIED-NATURAL-GAS
0539 NATIONAL MATERIALS ADVISORY BOARD (NRC) WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0658 RAJ,P.P.K., MOUSSA,A.N., ARAVAMUDAN,K. EXPERIMENTS INVOLVING POOL AND VAPOR FIRES FROM SPILLS OF LIQUEFIED-NATURAL-GAS ON WATER $ COAST GUARD WASHINGTON, D.C. AD-A077-073/5 258P. 1979

0700 SCHNEIDER,A.L. LIQUEFIED-NATURAL-GAS SPILLS ON WATER FIRE MODELING $ US COAST GUARD WASHINGTON, D.C. J FIRE FLAMMABILITY 12 (4) P. 302-313 1980

0787 VAN HORN,A.J., WILSON,R. POTENTIAL RISKS OF LIQUEFIED-NATURAL-GAS $ HARVARD UNIV ENERGY AND ENVIRON POLICY CENT CAMBRIDGE MASS 2 (4) P. 375-389 1977

LIQUEFIED-PETROLEUM-GAS
0170 CHANG,M.R., REID,R.C. SIMULTANEOUS BOILING AND SPREADING OF LIQUEFIED-PETROLEUM-GAS ON WATER FINAL REPORT DECEMBER 12 1978-MARCH 31 1981 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 38P. 1981

LIQUID
0522 MODAK,A.T. IGNITABILITY OF HIGH-FIRE-POINT LIQUID SPILLS FINAL REPORT $ FACTORY MUTUAL RESEARCH CORP NORWOOD MA 77P. 1981

0534 NAESS,A. EFFECT OF BREAKING WAVES ON THE MIXING OF LIQUID POLLUTANTS INTO THE SEA $ NORW HYDRODYN LAB TRONDHEIM NATL CONF PUBL INST ENG AUST (80-1) P. 198-199 1980

0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

0696 SARTOR,J.D., CASTLE,R.W. CONTINGENCY PLANNING FOR LIQUID PIPELINE SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF ASME PAP N 81-PET-12 FOR MEET 8P. 1981

0998 WIESENBURG,D.A., BUDENNEC,G., BROOKS,J.M. VOLATILE LIQUID HYDROCARBONS AROUND A PRODUCTION PLATFORM IN THE NORTHWEST GULF OF MEXICO $ TEX A AND M UNIV COLLEGE STATION USA BULL ENVIRON CONTAM TOXICOL 27 (2) P. 167-174 1981

LIQUID-CHROMATOGRAPHY
0827 ZAKUPRA,V.A., KOZAK,V.A., VYKHRESTYUK,N.I., TKACHENKO,D.A. SEPARATION OF PETROLEUM CUTS AND LUBE OILS WITH DETERGENT ADDITIVES BY MEANS OF 2 STAGE CONTINUOUS LIQUID-CHROMATOGRAPHY $ ALL UNION PETR REFINING AND PETROCHEM IND RES AND DESIGN INST MOSCOW CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (11-1) P. 846-850 1979

LIQUID-CRYSTALS
0573 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA RAPID LEAK DETECTION WITH LIQUID-CRYSTALS: SIMPLE TEST PROCEDURE IS INEXPENSIVE AND ACCURATE $ PB-80-971300 1P.

LIQUIDS
0349 HEWITT,J.D., RUDGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 3P. 1980

0585 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

LIQUIFIED-NATURAL-GAS
0240 DEPARTMENT OF ENERGY WASHINGTON, D.C. LIQUIFIED-NATURAL-GAS WIND-TUNNEL SIMULATION AND INSTRUMENTATION ASSESSMENTS $ 366P. 1978

LISKOW,C.L
0971 RAWSON,R.F., LISKOW,C.L. RADAR REFLECTIVITY MEASUREMENTS OF OCEAN SURFACE WITH AND WITHOUT A SURFACE COAT OF OIL $ ENVIRON RES INST OF MICH ANN ARBOR USA DIG - INT GEOSCI AND REMOTE SENS SUMP (IGARSS'81) 2 P. 1268-1273 1981

LISSAUER,I.M
0458 LISSAUER,I.M. FORECASTING THE MOVEMENT OF OIL SPILLS $ US COAST GUARD RES AND DEV CENT GROTON CONN ENVIRON INT 3 (2) P. 145-150 1980

0459 LISSAUER,I.M., MURPHY,D.L. OIL SPILL FORECASTING WHERE IS IT GOING? $ US COAST GUARD RES AND DEV CENT GROTON CONN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 649-652 1979

LITTLE,A.D
0460 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST WATER PORT FACILITIES STUDY APPENDIX A WESTERN GULF HYDROBIOLOGICAL ZONES $ AD-A091-404/4 154P. 1973

0461 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX D ADVERSE ENVIRONMENTAL EFFECTS $ AD-A091-406/9 96P. 1973

0462 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX B NORTH CENTRAL GULF HYDROBIOLOGICAL ZONES $ AD-A091-405/1 99P. 1973

0463 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY ENVIRONMENTAL ASSESSMENT $ AD-A091-403/6 94P. 1973

0464 LITTLE,A.D. INC CAMBRIDGE MA FEASIBILITY OF METHODS AND SYSTEMS FOR REDUCING LNG TANKER FIRE HAZARDS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 342P. 1980

LITTLE,D

0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., ROWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD COUNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

LITTLE,R.C

0101 BULSTER,R.M., LITTLE,R.C. CHEMICAL DEMULSIFICATION OF SEAWATER IN RESIDUAL OIL EMULSIONS $ US NAV RES LAB WASHINGTON, D.C. ENVIRON INT 3 (2) P. 163-170 1980

0466 LITTLE,R.C. CHEMICAL DEMULSIFICATION OF AGED CRUDE-OIL EMULSIONS $ NAV RES LAB WASHINGTON, D.C. ENVIRON SCI TECHNOL 15 (10) P. 1184-1190 1981

0467 LITTLE,R.C. CHEMICAL DEMULSIFICATION OF TANKER CRUDE EMULSIONS $ NAVAL RESEARCH LAB WASHINGTON, D.C. AD-A083-389/7 57P. 1980

LITTLE,W.M

0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

LITTLENECK

0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

LITTORAL

0032 ATLAS,R.M., BOEHM,P.D., CALDER,J.A. CHEMICAL AND BIOLOGICAL WEATHERING OF OIL FROM THE AMOCO-CADIZ SPILLAGE WITHIN THE LITTORAL ZONE $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY ESTUARINE COASTAL AND SHELF SCIENCE 12 (5) P. 589-608 1981

0136 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME III RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186836 643P. 1979

0139 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF THE YEAR ENDING MARCH 1979 VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186844 669P. 1979

0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

LITTORAL

0544 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130032 734P. 1978

0545 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME V RECEPTORS FISH LITTORAL BENTHOS $ PB-80-130040 377P. 1978

0606 NUTINI,M. CONTENTS AND LONG TIME EFFECTS IN THE LITTORAL ZONE AFTER AN OIL SPILL A TWO YEAR STUDY OF THE TSESIS OIL SPILL $ 16P. 1980

0849 BOEHM,P.D., BARAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

0953 BONSDORFF,E., NELSON,W.G. FATE AND EFFECTS OF EKOFISK CRUDE-OIL IN THE LITTORAL OF A NORWEGIAN FJORD $ INST MAR BIOL UNIV BERGEN BLOMSTERDALEN NORWAY SARSIA 66 (3) P. 231-40 1981

LIU,H

0469 LIU,H., CHENG,A.H.D. MODIFIED FICKIAN MODEL FOR PREDICTING DISPERSION $ UNIV OF MO COLUMBIA ASCE J HYDRAUL DIV 106 (6) P. 1021-1040 1980

LIU,H.T

0468 LIU,H.T., LIN,J.T. EFFECTS OF AN OIL SLICK ON WIND WAVES $ FLOW RES CO KENT WASH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 665-674 1979

LIVER-TISSUE

0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

LIVINGSTONE,D.R

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

LLOYDMINSTER

0175 CHMIELOWIEC,J., BESHAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN LLOYDMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

LMW

0872 CLINE,J.D. DISTRIBUTION OF DISSOLVED LMW HYDRO-CARBONS IN BRISTOL BAY ALASKA IMPLICATIONS FOR FUTURE GAS AND OIL DEVELOPMENT $ PACIFIC MARINE ENVIRONM LAB SEATTLE WA IN: HOOD,D.W., CALDER,J.A. EASTERN BERING SEA SHELF / P. 425-444 1981

LNG

0171 CHANG,K.K., BENNER,R.E. LASER-RAMAN POINT MONITORING OF METHANE VAPOR IN THE LNG STORAGE FIELD $ DEP ENG APPL SCI YALE UNIV NEW HAVEN CT PB-80-205347 39P. 1979

0228 DRAKE,E.M., WESSON,H.R. REVIEW OF LNG SPILL VAPOR DISPERSION AND FIRE HAZARD ESTIMATION AND CONTROL METHODS $ ARTHUR D. LITTLE INC CAMBRIDGE MASS AM GAS ASSOC OPER SECT PROC 17P. 1976

0241 DEPARTMENT OF ENERGY WASHINGTON, D.C. APPROACH TO LIQUEFIED-NATURAL-GAS (LNG) SAFETY AND ENVIRONMENTAL CONTROL RESEARCH $ 464P. 1978

0253 FAY,J.A. UNUSUAL FIRE HAZARD OF LNG TANKER SPILLS $ MASS INST OF TECHNOL CAMBRIDGE COMBUST SCI TECHNOL 7 (2) P. 47-49 1973

0296 GEORGAKIS,C., CONGALIDIS,J., WILLIAMS,G.C. MODEL FOR NON-INSTANTANEOUS LNG AND GASOLINE SPILLS $ MIT CAMBRIDGE MASS FUEL 58 (2) P. 113-120 1979

0301 GIDEON,D.N., PUTNAM,A.A. DISPERSION HAZARD FOR SPILLS OF LNG ON LAND AND ON WATER $ BATTELLE COLUMBUS LAB OHIO CRYOGENICS 17 (1) P. 9-15 1977

0431 LEBACK,W.G. CARRIAGE OF LNG "EM-DASH" THE STATE OF THE ART $ EL PASO LNG CO TEX PROC OF THE TANKER CONF TARPON SPRINGS FLA P. 174-201 1978

0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

0435 LEE,W.H. BEHAVIOR OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT PRINCE-WILLIAM-SOUND ALASKA $ LOS ALAMOS NATL LAB LOS ALAMOS NM TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY 38 P. 101-102 1981

0464 LITTLE,A.D. INC CAMBRIDGE MA FEASIBILITY OF METHODS AND SYSTEMS FOR REDUCING LNG TANKER FIRE HAZARDS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 342P. 1980

0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.M. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

0574 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA DAMAGE DETECTION SYSTEM FOR LNG CARRIERS: AN ACOUSTICAL DAMAGE DETECTION SYSTEM FOR SAFER LNG CARRIERS $ PB-80-975240 1P.

LNG

0719 SHINN,J.H. ENVIRONMENTAL ISSUES OF THE PROPOSED LNG SPILL TESTS AT FRENCHMAN FLATS: LNG WORKING GROUP REPORT NO. 1 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 16P. 1981

LOBSTER

0160 CAPUZZO,J.M. CRUDE-OIL EFFECTS TO DEVELOPMENTAL STAGES OF THE AMERICAN LOBSTER $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-82-117656 108P. 1981

0837 ATEMA,J., KARNOFSKY,E.B., OLESZKO-SZUTS,S., BRYANT,B. LOBSTER BEHAVIOR AND CHEMORECEPTION: SUBLETHAL EFFECTS OF NUMBER-2-FUEL-OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-192444 71P. 1982

LOCAL

0060 BELASH,V.D., FEDOTOV,M.N. FORMATION OF LOCAL EXPLOSION HAZARDOUS PROPANE-AIR MIXTURES $ LENINGR FILIAL USES NAUCHNO-ISSLED INST PROTIVOPOZHARNO OBORNY LENINGRAD GAZOV PROM-ST (8) P. 55-7 1980

LOCALE

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ TERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

LOCATED

0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

LOCK,J

0922 LOCK,J. POSSIBILITIES FOR RECOVERING SPILLED OIL $ LONDON UK CHEM RUNDSCH 34 (20) P. 3, 9, 13 1981

LOCK,M.A

0470 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

0471 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

LOGISTIC

0453 LINDBLOM,G.P. LOGISTIC PLANNING FOR OIL SPILL CHEMICAL USE $ EXXON CHEM CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 453-458 1979

LONG-TERM

0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KROGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BOECKOSIMUS-(*ONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

0205 CUCCI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB *EURYPANOPEUS-DEPRESSUS* $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203508 9P. 1979

0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

0512 MELENT'EVA,N.I., MALYSHEVA,I.V., KALIINA,N.N., SAVIN,L.N. ACCELERATED METHOD FOR EVALUATING CHEMICAL STABILITY OF FUELS DURING LONG-TERM STORAGE $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 843-846 1979

0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

0695 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S. LONG-TERM EFFECTS OF THE BARGE FLORIDA OIL SPILL $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-144792 225P. 1981

0773 TUPINKA,J.A., TUCKER,L.R. LONG-TERM OIL CONTAMINATION OF FUCOID-MACROALGAE FOLLOWING THE AMOCO-CADIZ OIL SPILL $ BIGELOW LAB OCEAN SCI MCKOWN POINT/WEST BOOTHBAY HARBOR ME AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 393-403 1979

0870 CLARK,R.B. THE LONG-TERM EFFECT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS SOME QUESTIONS $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 185-192 1982

LONG-TERM
0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

0985 SPARROW,E.B. LONG-TERM RESPONSE OF SOIL MICRO-ORGANISMS TO CRUDE-OIL SPILLS ON PERMA-FROST TERRAIN IN INTERIOR ALASKA USA $ INST OF WATER RESOURCES UNIV OF ALASKA FAIRBANKS ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 50-51 1981

LONG,B.F.N
0786 VANDERMEULEN,J.H., LONG,B.F.N., AHERN,T.P. BIOAVAILABILITY OF STRANDED AMOCO-CADIZ OIL AS A FUNCTION OF ENVIRONMENTAL SELF-CLEANING: APRIL 1978-JANUARY 1979 $ MAR ECOL LAB BEDFORD INST OCEANOGR DARTMOUTH NS AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 585-97 1979

LONG,E.R
0472 LONG,E.R. PHYSICAL PROCESSES AND CRITICAL BIOLOGICAL AREAS IN THE VICINITY OF A PROPOSED PETROLEUM TRANSFER FACILITY $ NOAA SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S P. 489-497 1980

LONGABUCCO,P
0632 PALM,D.J., ALEXANDER,M.M., PHILLIPS,D.M., LONGABUCCO,P. DAMAGE ASSESSMENT STUDIES FOLLOWING THE NEPCO-140 OIL SPILL ON THE ST.-LAWRENCE RIVER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-154594 175P. 1979

LOS-ANGELES
0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

LOUDEN,W.L
0790 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DE-ROOCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE REP (9) 52P. 1980

1113 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DEBROCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE 1980

LOUISIANA
0098 BUEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

0211 DELAUNE,R.D., PATRICK,W.H. JR., BURESH,R.J. EFFECT OF CRUDE-OIL ON A LOUISIANA *SPARTINA-ALTERNIFLORA SALT-MARSH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-164502 11P. 1979

0377 JACKSON,G.F., HUME,E., WADE,M.J., KIRSCH,M. OIL CONTENT IN PRODUCED BRINE ON TEN LOUISIANA PRODUCTION PLATFORMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-108408 495P. 1981

0587 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, BARGE PANAMA-CITY GOOD HOPE LOUISIANA AUGUST 30 1979 $ PB-80-200850 45P. 1980 D.C. MARINE ACCIDENT REPORT: COLLISION OF PERUVIAN FREIGHTER M/V INCA-TUPAC-YUPANGUI AND US BUTANE

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V POLA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

LOW-TEMPERATURE
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

LOWE,D.M
0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

LOYNACHAN,T.E
0507 MCKENDRICK,J.D., LAPERRIER,J.D., LOYNACHAN,T.E. COLD CLIMATE OIL SPILLS: A TERRESTRIAL AND FRESHWATER RESEARCH REVIEW $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-159121 93P. 1981

LPG
0385 JOHNSON,D.W., MARTINSEN,W.E., CAVIN,W.D., CHILTON,P.D., LAWSON,H.P. CONTROL AND EXTINGUISHMENT OF LPG FIRES FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 124P. 1980

LPG

0497 MARTINSEN,W.E., JOHNSON,D.W., WELKER,J.R. FIRE SAFETY ON LPG IN MARINE TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 216P. 1980

LUBE

0827 ZAKUPRA,V.A., KOZAK,V.A., VYKHRESTYUK,N.I., TKACHENKO,D.A. SEPARATION OF PETROLEUM CUTS AND LUBE OILS WITH DETERGENT ADDITIVES BY MEANS OF 2 STAGE CONTINUOUS LIQUID-CHROMATOGRAPHY $ ALL UNION PETR REFINING AND PETROCHEM IND RES AND DESIGN INST MOSCOW CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (11-1) P. 846-850 1979

LUBRICANT

0717 SHEVELYAKOV,V.V., SIDENKO,A.T. SENSITIZING AND STIMULATING PROPERTIES OF THE COMPOUND LUBRICANT NO. 76 $ USSR NAUCH-TEKHN PROGRESS I OKHRANA TRUDA ZHENSHCHIN V OSNOV OTR ASLYAKH KHIM PROM-STI MINSK P. 142-4 1980

LUBRICATING

0355 HOFFMAN,E.J., FALKE,A.M., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

0615 OGAWA,I. THE IDENTIFICATION METHOD FOR LUBRICATING OIL ADDITIVES IN BILGE BY THE INFRARED-SPECTROSCOPY $ KAIJO HOAN UNIV JAPAN NIPPON HAKUYO KIKAN GAKKAISHI 16 (2) P. 115-20 1981

1002 MUNIWA,Y., HONMA,Y. FLASH AND IGNITION POINTS OF LUBRICATING OILS $ HITACHI CO LTD HITACHI JAPAN JUNKATSU 16 (5) P. 364-9 1971

LUCKRITZ,R.T

0473 LUCKRITZ,R.T., SCHNEIDER,A.L. DECISION MAKING IN HAZARDOUS MATERIALS TRANSPORTATION $ US COAST GUARD ACAD NEW LONDON CONN J HAZARD MATER 4 (2) P. 129-143 1980

LUDWIGSON,J

0910 HUGAN,W.J., ERMAK,D.L., KOOPMAN,R.P., LUDWIGSON,J. (ED.) PREDICTING THE HAZARDS FROM LARGE SPILLS OF LIQUEFIED-GASEOUS-FUELS $ LAWRENCE LIVERMORE NATL LAB LIVERMORE CA HAZARD MATER SPILLS CONF PROC P. 391-8 1982

LUDWIGSON,J.D

0474 LUDWIGSON,J.D. (ED) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1979 $ PROC - OIL SPILL CONF LOS ANGELES CALIF 728P. 1979

LUMBER

0992 VANBLARICOM,G.R., JAMESON,R.J. LUMBER SPILL IN CENTRAL CALIFORNIA WATERS IMPLICATIONS FOR OIL SPILLS AND SEA OTTERS $ US FISH AND WILDLIFE SERV SAN SIMEON CA SCIENCE 215 (4539) P. 1503-1505 1982

LUMINESCENCE
0740 SUUTAR,I. SYNCHRONIZE YOUR WATCHES: THE APPLICATION OF LUMINESCENCE TECHNIQUES TO OIL SPILL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ENERGY BALANCE PAP ANNU MEET BR ASSOC ADV SCI P. 3-18 1979

LUMINESCENCE-SPECTROSCOPY
0232 EASTWOOD,D., WEHRY,E.L. (ED) USE OF LUMINESCENCE-SPECTROSCOPY IN OIL IDENTIFICATION $ RES DEV CENT US COAST GUARD GROTON CT MOD FLUORESC SPECTROSC 4 P. 251-75 1981

LUND,G
0475 LUND,G., HOLT,S.E. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

LUSCHER,U
0845 BLACK,W.T., HOLLOWAY,D.M., LUSCHER,U., NYMAN,D.J., THOMAS,H.P. STUDY OF THE FACTORS AFFECTING THE SAFETY OF ARCTIC PIPELINES $ DEPARTMENT OF TRANSPORTATION WASHINGTON,D.C. PB82-149030 114P. 1981

LUTRA-LUTRA
0047 BAKER,J.R., JONES,A.M., JONES,T.P., WATSON,H.C. OTTER LUTRA-LUTRA L MORTALITY AND MARINE OIL POLLUTION $ DEPT VET PATHOL VET FIELD STN NIRRAL CHESHIRE ENGLAND BIOLOGICAL CONSERVATION 20 (4) P. 311-321 1981

LYSYJ,I
0299 GIBSON,S.C., LYSYJ,I. TECHNICAL ASSISTANCE MASS-SPECTROMETER OIL MONITORING SYSTEM $ ROCKWELL INTERNATIONAL NEWBURY PARK CA AD-A096-533/5 103P. 1980

0476 LYSYJ,I., RUSHWORTH,R., MELVOLD,R., FARLOW,J. EFFECTIVENESS OF A LARGE-SCALE BALLAST TREATMENT PROCESS $ ROCKWELL INT NEWBURY PARK CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 133-137 1979

0477 LYSYJ,I. TREATMENT EFFECTIVENESS: OIL TANKER BALLAST WATER FACILITY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101361 189P. 1981

0923 LYSYJ,I. TREATMENT OF OILY WASTEWATERS FROM ONSHORE OPERATIONS $ ROCKWELL INT CORP CTR ENVIRONM MONITORING SERV NEWBURY PK CA JOURNAL WATER POLLUTION CONTROL FEDERATION 54 (3) P. 309-315 1982

MA,C.Y
0354 HO,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., KAU,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

MABERRY,M

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.K., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACIES COLLOQ INT P. 633-44 1979

MACCUBBIN,A.E

0478 MACCUBBIN,A.E., KATOR,H. DISTRIBUTION ABUNDANCE AND PETROLEUM DEGRADING POTENTIAL OF MARINE BACTERIA FROM MIDDLE ATLANTIC CONTINENTAL SHELF WATERS $ VIRGINIA INST MARINE SCI DEPT MICROBIOL PATHOL GLOUCESTER POINT VA IN: BOURQUIN,A.W., PRITCHARD,P.H. PROCEEDINGS OF THE WORKSHOP: MICROBIAL DEGRADATION OF POLLUTANTS IN MARINE ENVIRONMENTS P. 380-395 1979

MACHINING

0288 GEALER,R.L., GOLOVOY,A., WEINTRAUB,M.H. ELECTROLYTIC TREATMENT OF OILY WASTEWATER FROM MANUFACTURING AND MACHINING PLANTS $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-225113 59P. 1980

MACKAY,D

0091 BOBRA,A., MACKAY,D., SHIU,W.Y. DISTRIBUTION OF HYDROCARBONS AMONG OIL WATER AND VAPOR PHASES DURING OIL DISPERSANT TOXICITY TESTS $ UNIV OF TORONTO ONT BULL ENVIRON CONTAM TOXICOL 23 (4-5) P. 558-565 1979

0185 COHEN,Y., MACKAY,D., SHIU,W.Y. MASS-TRANSFER RATES BETWEEN OIL SLICKS AND WATER $ UNIV TORONTO INST ENVIRONM STUDIES TORONTO ONTARIO CANADA CANADIAN JOURNAL OF CHEMICAL ENGINEERING 58 (5) P. 569-575 1980

0305 GIRALT,F., MEDIR,M., MACKAY,D. OIL CONTAMINATION OF THE MEDITERRANEAN AND BEAUFORT SEAS TO CURE TO PREVENT OR TO NEGLECT $ UNIV BARCELONA FAC QUIM TARRAGONA DEPT QUIM TECN TARRAGONA SPAIN AFINIDAD 38 (373) P. 215-219 1981

0314 GREENE,G.D., BRODSKY,A.Z., CHARLES,M.E., MACKAY,D. USE OF DEFLECTORS FOR DEPLOYMENT OF OIL BOOMS IN RIVERS $ ESSO RESOUR CAN LTD CALGARY ALBERTA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 411-417 1979

0479 MACKAY,D., WATSON,A., NG,C., NADEAU,S. BEHAVIOR AND EFFECTIVENESS OF DISPERSANTS AT SEA AND AT SHORELINES $ UNIV OF TORONTO ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 447-452 1979

0850 BUEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-I BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

0924 MACKAY,D., WELLS,P.G., PATERSON,S. CHEMICAL DISPERSION OF OIL SPILLS: AN INTERNATIONAL RESEARCH SYMPOSIUM $ TORONTO UNIV (ONTARIO) INST FOR ENVIRONMENTAL STUDIES 223P. 1980

MACKAY,D

1033 MACKAY,D., KRISTMANSON,D.D., PICOT,J.J.C., SMEDLEY,J.B. THEORETICAL ASSESSMENT AND DESIGN STUDY OF THE AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-6 OTTAWA ONTARIO 1980

1034 MACKAY,D., PATERSON,S., TRUDEL,K. A MATHEMATICAL MODEL OF OIL SPILL BEHAVIOUR $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-7 OTTAWA ONTARIO 1980

1035 MACKAY,D., BUIST,I., MASCARENHAS,R., PATERSON,S. OIL SPILL PROCESSES AND MODELS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-8 OTTAWA ONTARIO 1980

1039 HUSSAIN,K., MACKAY,D. A STUDY OF THE COMBUSTIBILITY OF WEATHERED CRUDE-OILS AND WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-12 OTTAWA ONTARIO 1980

1040 MACKAY,D., PATERSON,S. THE PHYSICAL PROPERTIES OF FRESH AND WEATHERED CRUDE-OILS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-13 OTTAWA ONTARIO 1980

1058 MACKAY,D. SCIENTIFIC RESPONSE TO SPILLS OF OPPORTUNITY $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-31 OTTAWA ONTARIO 1982

1059 MACKAY,D. OIL-WATER INTERFACIAL-TENSIONS IN CHEMICAL DISPERSANT SYSTEMS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-32 OTTAWA ONTARIO 1982

1060 MACKAY,D., HUSSAIN,K. STUDIES OF WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-34 OTTAWA ONTARIO 1982

1061 MACKAY,D., HOSSAIN,K. AN EXPLORATORY STUDY OF SEDIMENTATION OF NATURALLY AND CHEMICALLY DISPERSED OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-35 OTTAWA ONTARIO 1982

1071 MEIKLE,K.M., MACKAY,D., PATERSON,S. SUB-SEA CONTAINMENT OF OIL $ INSTITUTE FOR ENVIRONMENTAL STUDIES TORONTO ONTARIO 1981

1081 MACKAY,D., SZETO,F. EFFECTIVENESS OF OIL SPILL DISPERSANTS - DEVELOPMENT OF A LABORATORY METHOD AND RESULTS FOR SELECTED COMMERCIAL PRODUCTS $ INSTITUTE FOR ENVIRONMENTAL STUDIES TORONTO CANADA 1981

1092 ASLIN,J., HOSSAIN,K., MACKAY,D. EFFECTIVENESS OF AERIALLY APPLIED DISPERSANTS $ DEPARTMENT OF CHEMICAL ENGINEERING AND APPLIED CHEMISTRY TORONTO CANADA 1981

1146 MACKAY,D. THREE DIMENSIONAL DIFFUSION OF DISSOLVED AND DISPERSED OIL IN THE WATER COLUMN UNDER OIL SLICKS $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1980

1148 BUEHM,P.D., MACKAY,D. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDROCARBONS FROM THE IXTOC-I BLOWOUT - CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1981

MACKO,S.A
0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TEORICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

0480 MACKO,S.A., PARKER,P.L., BOTELLO,A.V. PERSISTANCE OF SPILLED OIL IN A TEXAS USA SALT-MARSH $ PORT ARANSAS MAR LAB MAR SCI INST UNIV TEX PORT ARANSAS TEX ENVIRON POLLUT SER B CHEM PHYS 2 (2) P. 119-128 1981

MACLEAN,A.J
0875 CULLEY,J.L.B., DOW,B.K., PRESANT,B.W., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION $ AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

MACLEOD,W.D
0114 BROWN,D.W., FRIEDMAN,A.J., PROHASKA,P.G., MACLEOD,W.D. JR. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND PART II (SECOND-YEAR CONTINUATION) $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-82-104290 46P. 1981

0484 MALINS,D.C., KRAHN,M.M., BROWN,D.W., MACLEOD,W.D., COLLIER,T.K. ANALYSIS FOR PETROLEUM PRODUCTS IN MARINE ENVIRONMENTS $ NOAA NATL MARINE FISHERIES SERV NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA HELGOLANDER MEERESUNTER- SUCHUNGEN 33 (1-4) P. 257-271 1980

MACOMA-BALTHICA
0987 STEKOLL,M.S., CLEMENT,L.E., SHAW,D.G. SUBLETHAL EFFECTS OF CHRONIC OIL EXPOSURE ON THE INTERTIDAL CLAM "MACOMA-BALTHICA" $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB82-158163 12P. 1982

MACROBENTHIC
0760 TAGATZ,M.E., IVEY,J.M., OGLESBY,J.L. TOXICITY OF DRILLING-MUD BIOCIDES TO DEVELOPING ESTUARINE MACROBENTHIC COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY GULF BREEZE FLA PB-81-106031 10P. 1980

MACROBENTHOS
1022 CROSS,W.E., THOMSON,D.H. MACROBENTHOS $ BAFFIN ISLAND OIL SPILL WORKING REPORT # BIOS-80-3 OTTAWA ONTARIO 1981

MACROCRUSTACEANS
0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

MACROINVERTEBRATE
0470 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

0471 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

MAESS,A
1163 MAESS,A. THE MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ JOURNAL OF PETROLEUM TECHNOLOGY 1979

MAGEE,R.G
0925 MAGEE,R.G., HANNAH,R.P. IXTOC-I OIL SPILL AN EXAMPLE OF TAR-BALL FORMATION TRANSPORT AND FATE $ ENG LAB COMPUTER SCI CORP NSTL STATION MISS J MISS ACAD SCI 26 (0) P. 22-27 1981

MAGUTT,R.J
0481 MAGUTT,R.J., BASS,R.L. III, MORROW,T.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

MAHLUM,D.D
0931 MERCER,B.W., NAKAMIYA,M., PETTY,S.E., STRAND,J.A., MAHLUM,D.D. ASSESSMENT OF SYNFUEL SPILL CLEANUP OPTIONS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 15P. 1981

MAHONEY,B.M
0482 MAHONEY,B.M., HASKIN,H.H. EFFECTS OF PETROLEUM HYDROCARBONS ON THE GROWTH OF PHYTOPLANKTON RECOGNISED AS FOOD FORMS FOR THE EASTERN OYSTER CRASSOSTREA-VIRGINIA-GMELIN $ RUTGERS STATE UNIV NEW BRUNSWICK NJ ENVIRON POLLUT SER A 22 (2) P. 123-132 1980

MAIKO,L.P
0174 CHURSHUKOV,E.S., MAIKO,L.P., ZAKHAROVA,N.N., KUZNETSOV,V.A. EVALUATION OF WATER-DISPLACING ABILITY OF OILS BY ELECTROCHEMICAL METHOD $ CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (9-10) P. 766-767 1979

MAINE
0006 AHO,M., GUERIN,M. OILY DEBRIS DISPOSAL PROBLEM IN MAINE $ DEP OF ENVIRON PROT AUGUSTA ME ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 36-61 1980

MAINE/GEORGES
0083 BISHOP,J.M., HARRIGAN,D., MELLO,V. P CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NUMBER 2 GULF OF MAINE/GEORGES BANK $ FEDERAL EMERGENCY MANAGEMENT AGENCY WASHINGTON, D.C. AD-A103-818/1 189P. 1981

MALCOLM,J.D
0483 MALCOLM,J.D., DUTTON,C.R. INTERFACIAL-TENSION AND CONTACT ANGLE OF CRUDE-OIL UNDER ICE $ MEM UNIV OF NEWFOUNDL ST. JOHN'S POAC 79 INT CONF ON PORT AND OCEAN ENG UNDER ARCTIC COND P. 771-778 1979

MALINS,D.C
0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

0484 MALINS,D.C., KRAHN,M.M., BROWN,D.W., MACLEOD,W.D., COLLIER,T.K. ANALYSIS FOR PETROLEUM PRODUCTS IN MARINE ENVIRONMENTS $ NOAA NATL MARINE FISHERIES SERV NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA HELGOLANDER MEERESUNTER- SUCHUNGEN 33 (1-4) P. 257-271 1980

0485 MALINS,D.C., HODGINS,H.O. PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (11) 1272P. 1981

0926 MALINS,D.C., HODGINS,H.O. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 372-373 1982

0927 MALINS,D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 5 BIOLOGICAL STUDIES: ASSESSMENT OF AVAILABLE LITERATURE ON EFFECTS OF OIL POLLUTION ON BIOTA IN ARCTIC AND SUBARCTIC WATERS $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-171794 716P. 1979

MALLARD-DUCKS
0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

MALYSHEVA,I.V
0512 MELENT'EVA,N.I., MALYSHEVA,I.V., KALITINA,N.N., SAVIN,L.N. ACCELERATED METHOD FOR EVALUATING CHEMICAL STABILITY OF FUELS DURING LONG-TERM STORAGE $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 843-846 1979

MAMMALS
0137 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME 1 RECEPTORS MAMMALS BIRDS $ PB-80-186810 774P. 1979

MAMMALS
0208 DAVIS,R.A. REPORT ON A WORKSHOP ON ARCTIC MARINE MAMMALS $ LGL LIMITED ENVIRONMENTAL RESEARCH ASSOCIATES TORONTO ONTARIO CAN TECH REP FISH AQUAT SCI 0 (1005) P. IV, 1-13 1981

0297 GERACI,J.R., STAUBIN,D.J. OFFSHORE PETROLEUM RESOURCE DEVELOPMENT AND MARINE MAMMALS A REVIEW AND RESEARCH RECOMMENDATIONS $ UNIV GUELPH ONTARIO VET COLL DEPT PATHOL GUELPH ONT CANADA MARINE FISHERIES REVIEW 42 (11) P. 1-12 1980

0541 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-130008 781P. 1978

MAN
0614 OFFICE OF RADIATION PROGRAMS WASHINGTON, D.C. THE CONSEQUENCES AND FREQUENCY OF SELECTED MAN ORIENTED ACCIDENT EVENTS $ PB-80-211303 233P. 1980

MANEUVERING
0161 CARD,J.C., COJEEN,H.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-711/3 174P. 1979

MANN,D.C
0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

MANNING,A.R
0486 MANNING,A.R. JR., WHITE,J.R., VOLLMERS,R.R. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN US COASTAL WATERS $ US COAST GUARD PROC INT SYMP REMOTE SENSING ENVIRON 14TH SAN JOSE COSTA RICA P. 249-268 1980

MANUAL
0282 RUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE HAGUE NETH CONCAWE REP (7) 155P. 1981

0307 GOUDIER,J.L., SICLARI,R.J., GARRITY,P.A. FUEL CONSERVATION BY THE APPLICATION OF SPILL PREVENTION AND FAILSAFE ENGINEERING: A GUIDELINE MANUAL $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 332P. 1981

0919 LAMPHEAR,F.C., RESTREPO,C.E. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

MANUAL

0934 MILLER,S. ALASKAN USA BEAUFORT SEA COASTLINE SENSITIVITY ANALYSIS AND OIL SPILL RESPONSE MANUAL $ SOHIO ALASKAN PETROLEUM CO ANCHORAGE ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 173-175 1981

1082 ANONYMOUS OIL SPILL CLEANUP MANUAL VOLUME III RELIANCE ON CHEMICAL DISPERSANTS FOR AN OIL SPILL RESPONSE $ EXXON CORPORATION HOUSTON TEXAS 1980

1085 WOODWARD-CLYDE CONSULTANTS MANUAL OF PRACTICE USE OF CHEMICAL TREATING AGENTS IN OIL SPILL CONTROL $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

1112 RUSSELL,D.R., GUDJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE 1981

1147 ANONYMOUS UNDERGROUND SPILL CLEANUP MANJAL $ AMERICAN PETROLEUM INSTITUTE WASHINGTON,D.C. 1980

MANUELL,R.W

0487 MANUELL,R.W. OIL SPILL PREVENTION AND CONTROL IN AUSTRALIA $ ESSO AUST LTD SYDNEY NSW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 293-297 1979

MANUFACTURING

0288 GEALER,R.L., GOLOVOY,A., WEINTRAUB,M.H. ELECTROLYTIC TREATMENT OF OILY WASTEWATER FROM MANUFACTURING AND MACHINING PLANTS $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-225113 59P. 1980

MARCHAND,M

0072 BERNE,S., MARCHAND,M., D'OZOUVILLE,L. POLLUTION OF SEA-WATER AND MARINE SEDIMENTS IN COASTAL AREAS $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR AMBIO 9 (6) P. 287-293 1980

0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., COSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

0488 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS: APPLICATION TO THE "BOHLEN" OIL SPILLAGE $ CENT OCEANOL BRETAGNE CNEXO BREST FR OCEANOL ACTA 4 (2) P. 171-83 1981

0489 MARCHAND,M., MONFORT,J.P., RUBIO,C. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE "AMOCO-CADIZ" OIL SPILLS $ CNEXO BREST FR AM CHEM SOC DIV ENVIRON CHEM PREPR 20 (2) P. 97-99 1980

0490 MARCHAND,M., MONFORT,J.P., RUBIO,C.A. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE AMOCO-CADIZ AND IXTOC-1 OIL SPILLS $ CTR OCEANOL BRETAGNE BREST FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 37P. 1980

MARCHAND,M

0492 MARCHAND,M., RIOUCACHE,J. CRITERIA FOR OIL PULLUTION RESEARCH IN MARINE SEDIMENTS APPLICATION TO THE BOHLEN OIL SPILLAGE $ CTR NATL EXPLOITAT OCEANS CTR OCEANOL BRETAGNE BP BREST FRANCE OCEANOLOGICA ACTA 4 (2) P. 171-183 1981

MARCHAND,M.H

0491 MARCHAND,M.H. THE AMOCO-CADIZ OIL SPILL DISTRIBUTION AND EVOLUTION OF HYDROCARBON CONCENTRATIONS IN SEAWATER AND MARINE SEDIMENTS $ CENT OCEANOL BRETAGNE CNEXO BREST FR ENVIRON INT 4 (5-6) P. 421-9 1980

MARCO

0085 BLACKBOURN,S.R. TEXAS 1979 EXPERIENCE WITH MARCO FILTERBELT SKIMMERS ON IXTOC-1 AND BURMAH-AGATE CRUDE OIL-SPILLS $ MARCO SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S P. 398-406 1980

MARCO,A

0282 FUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE HAGUE NETH CONCAWE REP (7) 155P. 1981

1112 FUSSELL,D.R., GODJEN,H., HAYWARD,P., LILIE,R.H., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE 1981

MARCOLINI,R.A

0222 DOHERTY,C.B., GAUVIN,C.A., MARCOLINI,R.A., OBRIEN,J.L. OPEN OCEAN POLLUTION RESPONSE THE COAST GUARD SYSTEM $ US COAST GUARD OFFSHORE TECHNOL CONF 12TH ANNU PROC 1 P. 245-253 1980

MARCUS,M.S

0493 MARCUS,M.S., DENHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

MARCUS,M.D

0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MULHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

MARINE

0008 ALBAIGES,J., CUBERES,M.R. ON THE DEGRADATION OF PETROLEUM RESIDUES IN THE MARINE ENVIRONMENT $ INST BIO-ORG CHEM BARCELONA SPAIN CHEMOSPHERE 9 (9) P. 539-45 1980

0023 ANON. MARINE ENVIRONMENT AND OIL FACILITIES $ INST OF CIV ENG LONDON ENGL MAR ENVIRON AND OIL FACIL PROC OF A CONF 162P. 1978

0027 ANON. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ NAS WASHINGTON, D.C. PUBL NMAB NATL MATER ADVIS BOARD (US) (354) 357P. 1980

MARINE

0040 AWAD,H. COMPARATIVE STUDIES ON ANALYTICAL METHODS FOR THE ASSESSMENT OF PETROLEUM CONTAMINATION IN THE MARINE ENVIRONMENT II GAS-CHROMATOGRAPHIC ANALYSES $ FAC SCI UNIV ALEXANDRIA ALEXANDRIA EGYPT MAR CHEM 10 (5) P. 417-30 1981

0047 BAKER,J.R., JONES,A.M., JONES,T.P., WATSON,M.C. OTTER LUTRA-LUTRA L MORTALITY AND MARINE OIL POLLUTION $ DEPT VET PATHOL VET FIELD STN WIRRAL CHESHIRE ENGLAND BIOLOGICAL CONSERVATION 20 (4) P. 311-321 1981

0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE COPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

0072 BERNE,S., MARCHAND,M., D'OZOUVILLE,L. POLLUTION OF SEA-WATER AND MARINE SEDIMENTS IN COASTAL AREAS $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR AMBIO 9 (5) P. 287-293 1980

0090 BLAYLOCK,J.W., VANDERHORST,J.R., ANDERSON,J.W. ROLE OF TISSUE ANALYSIS FOR PETROLEUM HYDROCARBONS IN MARINE POLLUTION RESEARCH $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 15P. 1979

0114 BROWN,D.W., FRIEDMAN,A.J., PROHASKA,P.G., MACLEOD,W.D. JR. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND PART II (SECOND-YEAR CONTINUATION) $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-82-104290 46P. 1981

0115 BROWN,D.W., FRIEDMAN,A.J., BURROWS,D.G. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND $ NOAA NATIONAL ANALYTICAL FACILITY SEATTLE WA PB-80-128218 120P. 1979

0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

0162 CARLBERG,S.R. OIL POLLUTION OF THE MARINE ENVIRONMENT WITH AN EMPHASIS ON ESTUARINE STUDIES $ NATL BOARD FISHERIES DEPT HYDROG GOTEBORG SWEDEN IN: OLAUSSON,E., CATO,I. CHEMISTRY AND BIOGEOCHEMISTRY OF ESTUARIES P. 367-402 1980

0165 CARSIN,M.J.L. THE AMOCO-CADIZ OIL SPILL: BEHAVIOR OF HER HYDROCARBONS IN THE MARINE ENVIRONMENT $ ETABL PRINC SERV HYDROG OCEANOGR MAR PARIS FR ANN HYDROGR 754 P. 19-43 1980

MARINE

0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

0183 COAST GUARD WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0208 DAVIS,R.A. REPORT ON A WORKSHOP ON ARCTIC MARINE MAMMALS $ LGL LIMITED ENVIRONMENTAL RESEARCH ASSOCIATES TORONTO ONTARIO CAN TECH REP FISH AQUAT SCI 0 (1005) P. IV, 1-13 1981

0221 DIMOCK,C.W., LAKE,J.L., NORWOOD,C.B., BOWEN,R.D., HOFFMAN,E.J. FIELD AND LABORATORY METHODS FOR INVESTIGATING A MARINE GASOLINE SPILL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-185712 5P. 1981

0281 FUNATANI,C. JAPANESE GOVERNMENTAL AND INDUSTRIAL MEASURES FOR THE CONTROL OF MARINE OIL SPILLS $ JPN MAR DISASTER PREV CENT TOKYO JAPAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 261-267 1979

0297 GERACI,J.R., STAUBIN,D.J. OFFSHORE PETROLEUM RESOURCE DEVELOPMENT AND MARINE MAMMALS A REVIEW AND RESEARCH RECOMMENDATIONS $ UNIV GUELPH ONTARIO VET COLL DEPT PATHOL GUELPH ONT CANADA MARINE FISHERIES REVIEW 42 (11) P. 1-12 1980

0302 GIERE,O. THE IMPACT OF CRUDE-OIL AND OIL DISPERSANTS ON THE MARINE OLIGOCHAETE MARIONINA-SUBTERRANEA $ UNIV HAMBURG INST ZOOL HAMBURG GER CAHIERS DE BIOLOGIE MARINE 21 (1) P. 51-60 1980

0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

0333 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. DISPOSAL SYSTEMS FOR OIL RECOVERED FROM MARINE SPILLS $ SCS ENG LONG BEACH CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 15-28 1978

0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

MARINE

0361 HULLISTER,T.A., WARD,G.S., PARRISH,P.R. ACUTE TOXICITY OF A #6-FUEL-OIL TO MARINE ORGANISMS $ EG AND G BIONOM MARINE RES LAB PENSACOLA FL BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 24 (5) P. 656-661 1980

0370 HYLAND,J.L., SCHNEIDER,E.D. PETROLEUM HYDROCARBONS AND THEIR EFFECTS ON MARINE ORGANISMS POPULATIONS COMMUNITIES AND ECOSYSTEMS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-80-195423 43P. 1979

0389 JORDAN,R.E., PAYNE,J.R. FATE AND WEATHERING OF PETROLEUM SPILLS IN THE MARINE ENVIRONMENT A LITERATURE REVIEW AND SYNOPSIS $ LA JOLLA CALIF 0 (0) P. X+174 1980

0398 KARYDIS,M. THE TOXICITY OF CRUDE-OIL FOR THE MARINE ALGA SKELETONEMA-COSTATUM (GREVILLE) CLEVE IN RELATION TO NUTRIENT LIMITATION $ DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE HYDROBIOLOGIA 85 (2) P. 137-143 1981

0404 KERR,C.L., BARRIENTOS,C.S. WORKSHOP ON THE PHYSICAL BEHAVIOR OF OIL IN THE MARINE ENVIRONMENT HELD AT PRINCETON UNIVERSITY PRINCETON NEW JERSEY ON MAY 8-9 1979 $ NATIONAL WEATHER SERVICE SILVER SPRING MD PB-81-123796 386P. 1979

0409 KUBLANSKI,J.N. OIL SPILL REMOVAL IN THE MARINE ENVIRONMENT UTILIZING ACOUSTIC ENERGY $ OCEAN ECOL LTD VANCOUVER BC CANADA JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (3) P. 92-96 1981

0410 KUBLANSKI,J.N. OIL SPILL REMOVAL IN THE MARINE ENVIRONMENT UTILIZING ACOUSTIC ENERGY $ JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 19 (1) 36P. 1980

0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-168 1981

0420 LAKE,J.L., DIMOCK,C.W., NORWOOD,C.B. COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ EPA NARRAGANSETT RI ADV CHEM SER 185 PET IN THE MAR ENVIRON SYMP AT THE MEET OF THE ACS P. 343-360 1980

0421 LAKE,J.L., DIMOCK,C.W., NORWOOD,C.B. A COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-165839 20P. 1981

0424 LASDAY,A.H. ASSESSMENT OF RISK TO MARINE BIOTA DURING AN OIL SPILL $ TEXACO INC USA PROC COUNC ECON AIME 108TH ANNU MEET P. 25-3 1979

MARINE

0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TECRICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

0478 MACCUBBIN,A.E., KATOR,H. DISTRIBUTION ABUNDANCE AND PETROLEUM DEGRADING POTENTIAL OF MARINE BACTERIA FROM MIDDLE ATLANTIC CONTINENTAL SHELF WATERS $ VIRGINIA INST MARINE SCI DEPT MICROBIOL PATHOL GLOUCESTER POINT VA IN: BOURQUIN,A.W., PRITCHARD,P.H. PROCEEDINGS OF THE WORKSHOP: MICROBIAL DEGRADATION OF POLLUTANTS IN MARINE ENVIRONMENTS P. 380-395 1979

0484 MALINS,D.C., KRAHN,M.M., BROWN,D.W., MACLEOD,W.D., COLLIER,T.K. ANALYSIS FOR PETROLEUM PRODUCTS IN MARINE ENVIRONMENTS $ NOAA NATL MARINE FISHERIES SERV NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA HELGOLANDER MEERESUNTER- SUCHUNGEN 33 (1-4) P. 257-271 1980

0485 MALINS,D.C., HODGINS,H.O. PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (11) 1272P. 1981

0488 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL PULLUTION RESEARCH IN MARINE SEDIMENTS: APPLICATION TO THE "BOHLEN" OIL SPILLAGE $ CENT OCEANOL BRETAGNE CNEXO BREST FR OCEANOL ACTA 4 (2) P. 171-83 1981

0489 MARCHAND,M., MONFORT,J.P., RUBIO,C. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE "AMOCO-CADIZ" OIL SPILLS $ CNEXO BREST FR AM CHEM SOC DIV ENVIRON CHEM PREPR 20 (2) P. 97-99 1980

0490 MARCHAND,M., MONFORT,J.P., RUBIO,C.A. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE AMOCO-CADIZ AND IXTOC-1 OIL SPILLS $ CTR OCEANOL BRETAGNE BREST FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 37P. 1980

0491 MARCHAND,M.H. THE AMOCO-CADIZ OIL SPILL DISTRIBUTION AND EVOLUTION OF HYDROCARBON CONCENTRATIONS IN SEAWATER AND MARINE SEDIMENTS $ CENT OCEANOL BRETAGNE CNEXO BREST FR ENVIRON INT 4 (5-6) P. 421-9 1980

0492 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL PULLUTION RESEARCH IN MARINE SEDIMENTS APPLICATION TO THE BOHLEN OIL SPILLAGE $ CTR NATL EXPLOITAT OCEANS CTR OCEANOL BRETAGNE BP BREST FRANCE OCEANOLOGICA ACTA 4 (2) P. 171-183 1981

MARINE

0497 MARTINSEN,W.E., JOHNSON,D.W., WELKER,J.R. FIRE SAFETY ON LPG IN MARINE TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 216P. 1980

0539 NATIONAL MATERIALS ADVISORY BOARD (NRC) WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0553 NATIONAL RESEARCH COUNCIL WASHINGTON, D.C. PETROLEUM IN THE MARINE ENVIRONMENT $ PB-81-119679 120P. 1979

0567 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA MARINE FUELS JANUARY 1973-OCTOBER 1981 (CITATIONS FROM INFORMATION SERVICES IN MECHANICAL ENGINEERING DATA BASE) $ PB-82-853755 67P. 1981

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102049 78P. 1980

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND E1-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

0596 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA NATURAL-GAS: MARINE TRANSPORTATION 1964 OCTOBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-82-801648 169P. 1981

MARINE

0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

0607 NOUNOU,P. OIL SPILL AGE: FATE AND EFFECTS OF OIL IN THE MARINE ENVIRONMENT $ CENT NATL POUR L'EXPLOIT DES OCEANS PARIS FR AMBIO 9 (6) P. 297-302 1980

0627 OUDOT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL $ LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

0645 PETRAKIS,L. (ED), WEISS,F.T. (ED) PETROLEUM IN THE MARINE ENVIRONMENT SYMPOSIUM AT THE MEETING OF THE AMERICAN CHEMICAL SOCIETY 176TH 1978 $ GULF RES AND DEV CO PITTSBURGH PA SYMP AT THE MEET OF THE ACS 371P. 1978

0646 PETROLEUM AND THE MARINE ENVIRONMENT $ ASSOC EUROPEENNE OCEANPETROMAR 80 788P. 1981

0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

0666 RENOUX,A., BUTOR,J.F., JOUAN,M. EFFECT OF ACCIDENTAL POLLUTION OF THE OCEAN ON MARINE AEROSOL $ FAC SCI CRETEIL UNIV PARIS VAL DE MARNE CRETEIL FRANCE J ENVIRON SCI HEALTH PART A VOL A16 (4) P. 397-404 1981

0684 PAYNE,J.F. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ RES AND RESOURCE SERV ST JOHNS NEWFOUNDLAND CANADA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 370-372 1982

0715 SHAW,D.G., CLEMENT,L.E., MCINTOSH,D.J. SOME EFFECTS OF PETROLEUM ON NEARSHORE ALASKAN MARINE ORGANISMS $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-81-159147 93P. 1981

0725 SIROTA,G.R., UTHE,J.F., COOKE,M. (ED), DENNIS,A.J. (ED) POLYNUCLEAR-AROMATIC-HYDROCARBON CONTAMINATION IN MARINE SHELL $ HALIFAX LAB DEP FISH OCEANS HALIFAX NS CAN CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 329-41 1981

0735 SMITH,W. SURVEY DESIGN IN MARINE ENVIRONMENT: THREE EXAMPLES $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-199326 18P. 1978

MARINE

0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

0809 WHELAN,J.K., HUNT,J.M., HUC,A.Y. APPLICATIONS OF THERMAL DISTILLATION-PYROLYSIS TO PETROLEUM SOURCE ROCK STUDIES AND MARINE POLLUTION $ DEPT CHEM WOODS HOLE MA JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS 2 (1) P. 79-96 1980

0819 WISE,S.A., CHESLER,S.N., HERTZ,H.S., MAY,W.E., GUENTHER,F.R. DETERMINATION OF TRACE LEVEL HYDROCARBONS IN MARINE BIOTA $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-126278 11P. 1980

0824 WU,R.S.S. DIFFERENCES IN THE TOXICITIES OF AN OIL DISPERSANT AND A SURFACE ACTIVE AGENT TO SOME MARINE ANIMALS AND THEIR IMPLICATIONS IN THE CHOICE OF SPECIES IN TOXICITY TESTING $ FISHERIES RES STN ABERDEEN HONG KONG MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 157-163 1981

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

0833 ANON PETROLEUM AND THE MARINE ENVIRONMENT PETROMAR 80 1980 $ EUROCEAN (ASSOC EUR OCEANIQUE) MONACO PET AND THE MAR ENVIRON PETROMAR 80 MONACO 789P. 1980

0838 ATWOOD,D.K., FERGUSON,R.L. AN EXAMPLE STUDY OF THE WEATHERING OF SPILLED PETROLEUM IN A TROPICAL MARINE ENVIRONMENT IXTOC-1 $ NOAA ATLANT OCEANOG AND METEOROL LABS RICKENBACKER CAUSEWAY MIAMI FL BULLETIN OF MARINE SCIENCE 32 (1) P. 1-13 1982

0870 CLARK,R.B. THE LONG-TERM EFFECT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS SOME QUESTIONS $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 185-192 1982

0871 CLARK,R.B. THE IMPACT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS A SUMMING -UP $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 433-443 1982

0878 DEVEREUX,R., SIZEMORE,R.K. PLASMID INCIDENCE IN MARINE BACTERIA ISOLATED FROM PETROLEUM POLLUTED SITES ON DIFFERENT PETROLEUM HYDROCARBONS $ UNIV N CAROLINA DEPT BIOL WILMINGTON NC MARINE POLLUTION BULLETIN 13 (6) P. 198-202 1982

MARINE

0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P. HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

0909 HENSON,J.M., HAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

0915 KARYDIS,M. TOXICITY OF A PHOTOOXIDIZED CRUDE-OIL ON 2 MARINE MICROALGAE $ NUCL RES CTR DEMOCRITOS DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE BOTANICA MARINA 25 (1) P. 25-29 1982

0926 MALINS,D.C., HODGINS,H.O. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 372-373 1982

0935 MUREL,G., COURTOT,P. EVOLUTION OF HYDROCARBONS IN A CONFINED MARINE SITE FOLLOWING THE PETROLEUM POLLUTION OF THE AMOCO-CADIZ $ UNIV BRETAGNE OCCIDENTALE FAC SCI AND TECH BREST FRANCE BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE PT 1 (11-1) P. 387-388 1981

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

0973 REISH,D.J., OSHIDA,P.S., WILKES,F.G., MEARNS,A.J., KUSI,S.S. MARINE ESTUARINE POLLUTION $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB82-128174 28P. 1981

MARINE

0979 SINDERMANN,C.J. IMPLICATIONS OF OIL POLLUTION IN PRODUCTION OF DISEASE IN MARINE ORGANISMS $ NOAA NATL MARINE FISHERIES SERV SANDY HOOK NJ PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 385-399 1982

1007 SAMSUN,A.L., VANDERMEULEN,J.H., WELLS,P.G., MUYSE,C. A SELECTED BIBLIOGRAPHY ON THE FATE OF OIL POLLUTION RELEVANT TO THE CANADIAN MARINE ENVIRONMENT $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-5 OTTAWA ONTARIO 1980

1038 FOY,M.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-3 OTTAWA ONTARIO 1982

1043 DUVAL,W.S., FINK,R.P. THE SUBLETHAL EFFECTS OF WATER-SOLUBLE HYDROCARBONS ON THE PHYSIOLOGY AND BEHAVIOUR OF SELECTED MARINE FAUNA $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-16 OTTAWA ONTARIO 1981

1072 DEACON,G. OIL POLLUTION IN THE MARINE ENVIRONMENT SOME RESEARCH NEEDS $ ROYAL SOCIETY OF LONDON 1980

1077 EUROCEAN PETROLEUM AND THE MARINE ENVIRONMENT $ GRAHAM AND TROTMAN LIMITED LONDON 1981

1137 ANONYMOUS OIL SPILLS THEIR FATE AND IMPACT ON THE MARINE ENVIRONMENT $ WITHERBY AND CO LTD LONDON 1980

MARINE-DUVAL

0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

MARINE-ENVIRONMENT

0049 BALLERINI,D., VANDECASTEELE,J.P. BIODEGRADATION OF CRUDE-OIL IN A MARINE-ENVIRONMENT GENERAL METHODOLOGY $ INST FRANCAIS PETR F-92502 RUEIL MALMAISON FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 12P. 1980

0321 GUNKEL,W., GASSMANN,G. OIL DISPERSANTS AND RELATED SUBSTANCES IN THE MARINE-ENVIRONMENT $ BIOL ANSTALT HELGOLAND MEERESSTN HELGOLAND GER HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 164-181 1980

MARINE-INVERTEBRATES

0438 LEE,W.Y., MURRIS,A., BOATWRIGHT,D. MEXICAN OIL SPILL A TOXICITY STUDY OF OIL ACCOMMODATED IN SEAWATER ON MARINE-INVERTEBRATES $ UNIV TEXAS INST MARINE SCI PORT ARANSAS MARINE LAB PORT ARANSAS TX MARINE POLLUTION BULLETIN 11 (8) P. 231-234 1980

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Format

This bibliography contains over 1,500 references which have been compiled using a computer system. Authors and keywords are arranged alphabetically throughout this bibliography. Readers are advised to check for the particular keyword of interest, plus its plural and other forms of the word, eg., its verb, adjective, etc. Compound names such as place names or those of biological species, will be indexed in this bibliography as separate words.

MARINE-SEDIMENTS
0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

MARINO,K.L.
0191 COOK,R.C., MARINO,K.L., COOPER,R.B. A SIMULATOR STUDY OF DEEPWATER PORT SHIPHANDLING AND NAVIGATION PROBLEMS IN POOR VISIBILITY $ COAST GUARD WASHINGTON, D.C. AD-A100-656/6 190P. 1981

MARIONINA-SUBTERRANEA
0302 GIERE,O. THE IMPACT OF CRUDE-OIL AND OIL DISPERSANTS ON THE MARINE OLIGOCHAETE MARIONINA-SUBTERRANEA $ UNIV HAMBURG INST ZOOL HAMBURG GER CAHIERS DE BIOLOGIE MARINE 21 (1) P. 51-60 1980

MARITIME
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

MARITIMES
0907 HAYES,T.M. MARITIMES REGION OIL SPILL ALERTING AND RESPONSE ORGANISATION $ CAN COAST GUARD DARTMOUTH NS ENVIRON INT 5 (3) P. 149-152 1981

MARKERS
0842 BERTHOU,F., FRIOCOURT,M.P. GAS-CHROMATOGRAPHIC SEPARATION OF DIA-STEREOMERIC-ISOPRENOIDS AS MOLECULAR MARKERS OF OIL POLLUTION $ LAB DE CHROMATOGRAPHIE SERVICE DE BIOCHIM BREST CEDEX FR

MARKO,J.R
1015 MARKO,J.R. DEEP-WATER BLOWOUT TRAJECTORY MODELS FOR THE LANCASTER-SOUND REGION $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-2 OTTAWA ONTARIO 1982

MARSH
0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE PUPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

MARSH
0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

0856 BREUEL,A. (ED.) OIL SPILL CLEANUP AND PROTECTION TECHNIQUES FOR SHORELINES AND MARSH LANDS $ POLLUT TECHNOL REV (78) 404P. 1981

MARSH,G.D
0495 MARSH,G.D., SCHULTZ,L.A., DEBORD,F.W. COLD REGIONS SPILL RESPONSE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 355-358 1979

0702 SCHULTZ,L.A., MARSH,G.D. OFFSHORE AND COASTAL ALASKAN OIL SPILL SCENARIOS $ ARCTEC INC COLUMBIA MD ASME PAP N 80-PET-40 FOR MEET 13P. 1980

MARTIN,B.J
0496 MARTIN,B.J. EFFECTS OF PETROLEUM COMPOUNDS ON ESTUARINE FISHES $ UNIVERSITY OF SOUTHERN MISSISSIPPI HATTIESBURG PB-80-141310 43P. 1980

MARTIN,H.R
0739 SOOM,A., MARTIN,H.R., LEA,J.A. PASSIVE ACOUSTIC DETECTION OF GAS LEAKS IN BURIED PIPES $ STATE UNIV OF NY BUFFALO ASME PAP N 80-WA/NC-17 FOR MEET 10P. 1980

MARTIN,L.R
0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

MARTIN,R.B
0617 OLGEIRSON,E.R., MARTIN,R.B. ECOLOGICAL INVESTIGATIONS: VEGETATION STUDIES PRELIMINARY FINDINGS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 56P. 1978

MARTIN,R.G
0326 HALL,R.H., HAIGH,D.H., MARTIN,R.G., WAMPFLER,D.J. USE OF ABSORBENT (IMBIBING) POLYMERS IN SPILL CONTROL $ DOWN CHEM CO MIDLAND MICH 13TH LOSS PREV SYMP P. 170-174 1980

MARTINS,I
0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BROWNS,W.A., CUMMING,R.B. WATER CHLORINATION 3 P. 845-850 1980

MARTINSEN,W.E

0385 JOHNSON,D.W., MARTINSEN,W.E., CAVIN,W.D., CHILTON,P.D., LAWSON,H.P. CONTROL AND EXTINGUISHMENT OF LPG FIRES FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 124P. 1980

0497 MARTINSEN,W.E., JOHNSON,D.W., WELKER,J.R. FIRE SAFETY ON LPG IN MARINE TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 216P. 1980

MARYLAND

0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

MARYLAND'S

0803 WEBER,E.C., BURGESS,W.S. MARYLAND'S EXPERIENCE IN SPILL PREVENTION AND CONTROL $ WATER RESOUR ADM ANNAPOLIS MD PROC MID ATL IND WASTE CONF 12TH BUCKNELL UNIV LEWISBURG PA P. 24-28 1980

MASCARENHAS,R

1035 MACKAY,D., BUIST,I., MASCARENHAS,R., PATERSON,S. OIL SPILL PROCESSES AND MODELS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-8 OTTAWA ONTARIO 1980

MASS-SPECTROMETER

0299 GIBSON,S.C., LYSYJ,I. TECHNICAL ASSISTANCE MASS-SPECTROMETER OIL MONITORING SYSTEM $ ROCKWELL INTERNATIONAL NEWBURY PARK CA AD-A096-533/5 103P. 1980

MASS-TRANSFER

0185 COHEN,Y., MACKAY,D., SHIU,W.Y. MASS-TRANSFER RATES BETWEEN OIL SLICKS AND WATER $ UNIV TORONTO INST ENVIRONM STUDIES TORONTO ONTARIO CANADA CANADIAN JOURNAL OF CHEMICAL ENGINEERING 58 (5) P. 569-575 1980

MASSACHUSETTS

0374 INGRAU,H.C., HEIDERSBACH,R.H., SHARP,R.K. PIPELINE TRANSPORTATION SAFETY R AND D WORKING GROUP MEETING PROCEEDINGS HELD AT CAMBRIDGE MASSACHUSETTS ON JUNE 30-JULY 1 1980 $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-81-151359 70P. 1980

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

MASSART,G
0064 BELLIER,P., MASSART,G. AMOCO-CADIZ OIL-SPILL CLEANUP OPERATIONS AN OVERVIEW OF THE ORGANIZATION CONTROL AND EVALUATION OF THE CLEANUP TECHNIQUES EMPLOYED $ CEDRE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 141-146 1979

MASSIN,J.M
0152 BURKHALTER,R., MEYER,C., MASSIN,J.M. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN FRENCH COASTAL WATERS $ LAB NATL ESSAIS PARIS FRANCE IN: COOK,J.J. PROCEEDINGS OF THE FOURTEENTH INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 3 VOLS P. 269-274 1980

MATERIAL
0332 HANSEN,C.A., SANDERS,R.G. REMOVAL OF HAZARDOUS MATERIAL SPILLS FROM BOTTOMS OF FLOWING WATERBODIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-230922 113P. 1981

MATERIALS
0229 DRISCOLL,W.J. PIPELINE AND HAZARDOUS MATERIALS TRANSPORTATION SAFETY AND OIL SPILL REDUCTION $ US DOT WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 23-25 1979

0283 GABOR,I., GRIFFITH,T.K. ASSESSMENT OF COMMUNITY VULNERABILITY TO ACUTE HAZARDOUS MATERIALS INCIDENTS $ OHIO STATE UNIV COLUMBUS J HAZARD MATER 3 (4) P. 323-333 1980

0298 GETTER,C.D., HAYES,M.O. THE COMPARATIVE SENSITIVITIES OF 5 UNITED-STATES ESTUARIES TO OIL AND HAZARDOUS MATERIALS SPILLS $ RES AND PLANNING INST COLUMBIA SC ESTUARIES 4 (3) 244P. 1981

0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

0360 HOLLAND,L.M., SPALL,W.D., GARCIA,L.L., KOH,W.N. (ED), ARCHER,V.E. (ED) INHALATION TOXICOLOGY OF OIL-SHALE RELATED MATERIALS $ LOS ALAMOS SCI LAB UNIV CALIFORNIA LOS ALAMOS NM HEALTH IMPLIC NEW ENERGY TECHNOL (PARK CITY ENVIRON HEALTH CONF) P. 515-26 1979

0391 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 1 NARRATIVE $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-82-117078 322P. 1981

0392 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 2 APPENDICES $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-190944 477P. 1981

0481 KONDO,G. MATERIALS FOR REMOVAL OF WASTE OIL 2 OIL ADSORBENTS $ KOBE SHOSEN UNIV KOBE JAPAN KANKYO GIJUTSU 9 (6) P. 446-51 1980

MATERIALS
0473 LUCKRITZ,R.T., SCHNEIDER,A.L. DECISION MAKING IN HAZARDOUS MATERIALS TRANSPORTATION $ US COAST GUARD ACAD NEW LONDON CONN J HAZARD MATER 4 (2) P. 129-143 1980

0539 NATIONAL MATERIALS ADVISORY BOARD (NRC) WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0584 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. SAFETY EFFECTIVENESS EVALUATION FEDERAL AND STATE ENFORCEMENT EFFORTS IN HAZARDOUS MATERIALS TRANSPORTATION BY TRUCK $ PB-81-180101 113P. 1981

0938 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO HAZARDOUS MATERIALS RESPONSE PROJECT: PROGRAM PLAN $ PB82-193046 33P. 1981

MATHEMATICAL
1034 MACKAY,D., PATERSON,S., TRUDEL,K. A MATHEMATICAL MODEL OF OIL SPILL BEHAVIOUR $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-7 OTTAWA ONTARIO 1980

MATHES,G.M
0928 MATHES,G.M. SPILLED PETROLEUM RECOVERED FROM ATOP WATER-TABLE OF MISSISSIPPI AQUIFER $ JOHN MATHES AND ASSOC INC COLUMBIA IL CIVIL ENGINEERING 52 (6) P. 58-59 1982

MATHEWS,K.W
0498 MATHEWS,K.W. "GLOBAL-HOPE IS AGROUND" AN INCIDENT AT SALEM-SOUND $ FIRST COAST GUARD DIST BOSTON MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 127-132 1979

MATHISEN,J.P
0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KROGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

MATTHEWS,N.F
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.K., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

MATTOX,J.K
0642 PEPELKO,W.E., MATTOX,J.K., YANG,Y.Y., MOORE,W. JR. PULMONARY FUNCTION AND PATHOLOGY IN CATS EXPOSED 28 DAYS TO DIESEL EXHAUST $ HEALTH EFFECTS RESEARCH LAB CINCINNATI OHIO PB-81-196578 11P. 1980

MATTSON,J.S

0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

MATTSSON,J

0605 NOTINI,M., MATTSSON,J., LINDEN,O. DISPERSAL AND EFFECTS OF THE ANTONIO-GRAMSCI OIL SPILL IN THE STOCKHOLM ARCHIPELAGO $ SWEDISH WATER AND AIR POLLUTION RESEARCH LAB FRYKSTA 32P. 1980

MATUCK,C

0234 EHRENSPECK,H., MATUCK,C., JUDSON,K. OIL POLLUTION ABSTRACTS VOLUME 7 NUMBER 2 (JULY 1980-NOVEMBER 1980) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-141582 233P. 1981

0613 OFFEN,H.W., EHRENSPECK,H., MATUCK,C., HANNAN,D., STEFANI,R. OIL POLLUTION ABSTRACTS VOLUME 7 NUMBER 1 (JANUARY 1980-JUNE 1980) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-140493 355P. 1981

MAVINKURVE,S

0080 BHOSLE,N.B., MAVINKURVE,S. HYDROCARBON-UTILISING MICRO-ORGANISMS FROM DONA-PAULA-BAY-GOA $ NATL INST OF OCEANOGR DONA PAULA GOA INDIA MAR ENVIRON RES 4 (1) P. 53-58 1980

MAY,W.E

0819 WISE,S.A., CHESLER,S.N., HERTZ,H.S., MAY,W.E., GUENTHER,F.R. DETERMINATION OF TRACE LEVEL HYDROCARBONS IN MARINE BIOTA $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-126278 11P. 1980

MAZMANIDI,N.D

0412 KOKOLYOV,A.M., SYOMINA,T.K., MAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ MV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

0499 MAZMANIDI,N.D., KOTOV,A.M. EFFECT OF PETROLEUM DISPERSANTS ON THE SURVIVAL RATE AND SOME PHYSIOLOGICAL-BIOCHEMICAL BLOOD INDEXES OF THE BLACK SEA SEA-BASS (SPICARA-SMARIS-L.) $ USES NAUCHNO-ISSLED INST MORSK RYBN KHOZ OKEANOGR BATUMI USSR GIDROBIOL ZH 17 (1) P. 74-8 1981

MAZUROV,V.A

0852 BOGDANOV,Y.M., BORISOV,V.V., GROKHOTOV,V.A., MAZUROV,V.A. PREVENTION OF ACCIDENTAL BLOW-OUTS OF A FUEL IN UNDERGROUND RESERVOIRS $ VSES NAUCHNO-ISSLED INST ISPOL'Z GAZA NAR KHOZ MOSCOW USSR (SU) TRANSP KHRANENIE NEFTI NEFTEPROD (2) P. 20-4 1982

MCAULIFFE,C.D

0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.H., CANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-18 1980

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

MCCARTHY,L.T

0216 DEWLING,R.T., MCCARTHY,L.T. CHEMICAL AGENTS FOR OIL SPILL CONTROL $ EPA NEW YORK USA ADV ENVIRON SCI ENG 4 P. 146-60 1981

0217 DEWLING,R.T., MCCARTHY,L.T. CHEMICAL TREATMENT OF OIL SPILLS $ US EPA NEW YORK ENVIRON INT 3 (2) P. 155-162 1980

0502 MCCARTHY,L.T. JR., LINDBLOM,G.P., WALTER,H.F. CHEMICAL DISPERSANTS FOR THE CONTROL OF OIL SPILLS $ EPA EDISON NJ CHEMICAL DISPERSANTS FOR THE CONTROL OF OIL SPILLS WILLIAMSBURG VIRGINIA 197?

MCCASLIN,J.C

1108 MCCASLIN,J.C. INTERNATIONAL PETROLEUM ENCYCLOPEDIA $ PENWELL PUBLISHING CO TULSA OKLAHOMA 1980

MCCLEAN,V

0177 CLAUSSE,M., BUNEL,C., PEYRELASSE,J., LAGOURETTE,B., MCCLEAN,V., SHEPPARD,R.J. DIELECTRIC AND CONDUCTIVE PROPERTIES OF WATER-IN-OIL TYPE MICRO-EMULSIONS $ UNIV PAU AND PAYS ADOUR INST RECH SCI DEPT PHYS THERMODYNAM LAB PAU FRANCE IN: SHAH,D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 199-228 1981

MCCRACKEN,W.F

0503 MCCRACKEN,W.F., CHARLTON,T.J., FREESTONE,F.J. OIL POLLUTION PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRON ASSESS COUNC INC NEW BRUNSWICK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 213-216 1979

MCDONALD,J

0255 FEDER,H.M., PAUL,A.J., MCDONALD,J. A PRELIMINARY SURVEY OF THE BENTHOS OF RESURRECTION-BAY AND AIALIK ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-182991 57P. 1979

MCGILL,W.B

0504 MCGILL,W.B., ROWELL,M.J. DETERMINATION OF OIL CONTENT OF OIL CONTAMINATED SOIL $ UNIV ALBERTA DEPT SOIL SCI EDMONTON ALBERTA CANADA SCIENCE OF THE TOTAL ENVIRONMENT 14 (3) P. 245-253 1980

MCINTOSH,D.J

0715 SHAW,D.G., CLEMENT,L.E., MCINTOSH,D.J. SOME EFFECTS OF PETROLEUM ON NEARSHORE ALASKAN MARINE ORGANISMS $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-81-159147 93P. 1981

MCINTYRE,A.D

0506 MCINTYRE,A.D. THE USE OF BIOLOGICAL PARAMETERS TO MONITOR OIL POLLUTION IN THE SEA $ DEPT AGR AND FISHERIES SCOTLAND MARINE LAB ABERDEEN SCOTLAND IN: BRITISH ASSOC ADVANCEMENT SCI ENERGY IN THE BALANCE P. 37-50 1980

MCKENDRICK,J.D

0507 MCKENDRICK,J.D., LAPERRIER,J.D., LOYNACHAN,T.E. COLD CLIMATE OIL SPILLS: A TERRESTRIAL AND FRESHWATER RESEARCH REVIEW $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-159121 93P. 1981

MCKENZIE,J.H

0662 KATH,R.J., MCKENZIE,J.H., CEBRON,E.J., HAMMOND,J.G. PUGET-SOUND TANKER SIZE OPTIMIZATION $ OCEANOGRAPHIC INST OF WASHINGTON SEATTLE AD-A102-496/7 222P. 1981

MCKEOWN,B.A

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 2 (4) P. 295-300 1981

MCKINLEY,V.L

0930 MCKINLEY,V.L., FEDERLE,T.W., VESTAL,J.R. EFFECTS OF PETROLEUM HYDROCARBONS ON PLANT LITTER MICROBIOTA IN AN ARCTIC LAKE $ UNIV CINCINNATI DEPT BIOL SCI CINCINNATI OH APPLIED AND ENVIRONMENTAL MICROBIOLOGY 43 (1) P. 129-135 1982

MCLACHLAN,A

0508 MCLACHLAN,A., HARTY,B. EFFECTS OF OIL ON WATER FILTRATION BY EXPOSED SANDY BEACHES $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 12 (11) P. 374-378 1981

MCLAREN,P

1026 MCLAREN,P., BARRIE,W.B., SEMPELS,J.M. GEOMORPHOLOGY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-7 OTTAWA ONTARIO 1981

MCNAMARA,T.M

0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MURITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

MCSHEA,D.W

1129 GOLUB,R.S., MCSHEA,D.W. IMPLICATIONS OF THE IXTOC I BLOW-OUT AND OIL SPILL $ CENTER FOR SHORT-LIVED PHENOMENA WORLD INFORMATION SYSTEMS CAMBRIDGE MASSACHUSETTS 1980

MEADE,N.F
0509 MEADE,N.F., ANDERSON,R.C. PROBLEMS AND PERSPECTIVES IN MEASURING THE SOCIAL COSTS OF OIL POLLUTION $ NOAA WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 59-62 1979

MEARNS,A.J
0973 REISH,D.J., OSHIDA,P.S., WILKES,F.G., MEARNS,A.J., KUSI,S.S. MARINE ESTUARINE POLLUTION $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB82-128174 28P. 1981

MEASUREMENT
0181 COAST GUARD WASHINGTON, D.C. THE WINDWAVE AND TURBULENCE OBSERVATION PROGRAM (WAVTOP) THE MEASUREMENT OF PARAMETERS CONTROLLING DOWNWARD MIXING OF OIL FROM THE SEA SURFACE $ AD-A083-014/1 103P. 1979

0359 HUGE,F.E., SWIFT,R.N. OIL FILM THICKNESS MEASUREMENT USING AIRBORNE LASER INDUCED WATER RAMAN BACKSCATTER $ NASA WALLOPS FLIGHT CENT WALLOPS ISL VA APPL OPT 19 (19) P. 3269-3281 1980

0981 SLIWINSKI,A. POSSIBILITIES OF THE USE OF ACOUSTIC MEASUREMENT METHODS IN THE EXAMINATION OF OIL SPILLS ON THE SEA $ POL (PL) STUD WATER OCEANOL 35 P. 159-60 1981

MEASUREMENTS
0349 HEWITT,J.D., RODGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 9P. 1980

0352 MILTRABRAND,R.R. CONTINUOUS OIL-IN-WATER MEASUREMENTS BY FLUORUMETRY $ US COAST GUARD RES AND DEV CENT GROTON CONN OCEANS (NEW YORK) ANNU COMB CONF OF IEEE AND MAR TECHNOL SOC 1979

0481 MAGOTT,R.J., BASS,R.L. III, MORROW,T.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

0667 REWICK,R.T., GATES,J., SMITH,J.H. SIMPLE TEST OF DISPERSANT EFFECTIVENESS BASED ON INTERFACIAL-TENSION MEASUREMENTS $ STANFORD RES INST INT MENLO PARK CALIF FUEL 59 (4) P. 263-265 1980

0850 BOEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-I BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

0874 CROSWELL,W.F., BLUME,H.J.C., JOHNSON,J.W. MICROWAVE REMOTE-SENSING MEASUREMENTS OF OIL POLLUTION OF THE OCEAN $ NASA LANGLEY RES CENT HAMPTON VA DIG - INT GEOSCI AND REMOTE SENS SYMP (IGARSS'81) 2 P. 1246-1251 1981

MEASUREMENTS

0971 RAWSON,R.F., LISKOW,C.L. RADAR REFLECTIVITY MEASUREMENTS OF OCEAN SURFACE WITH AND WITHOUT A SURFACE COAT OF OIL $ ENVIRON RES INST OF MICH ANN ARBOR USA DIG - INT GEOSCI AND REMOTE SENS SUMP (IGARSS'81) 2 P. 1268-1273 1981

1148 BOEHM,P.D., MACKAY,D. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDROCARBONS FROM THE IXTOC-I BLOWOUT - CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1981

MEASURES

0281 FUNATANI,C. JAPANESE GOVERNMENTAL AND INDUSTRIAL MEASURES FOR THE CONTROL OF MARINE OIL SPILLS $ JPN MAR DISASTER PREV CENT TOKYO JAPAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 261-267 1979

0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

0738 SNIDER,W.D., SHEEHAN,D.F., JOHNSON,E.K. OVERVIEW OF CURRENT AND PROPOSED TANK VESSEL SAFETY AND POLLUTION PREVENTION MEASURES $ US COAST GUARD SEATTLE WASH PROC - SHIP TECHNOL AND RES (STAR) SYMP 4TH P. 93-119 1979

0917 KOOMAN,C., DEBRUIN,D., SMIT,J.A. TRAFFIC ACCIDENTS AND SAFETY MEASURES ON DUTCH WATERWAYS $ PUBL WORKS DEPT DELTA DEPT DIV ENGN BERGEN OP ZOOM NETHERLANDS IN: PERMANENT INT ASSOC NAV CONGRESSES 11 P. 313-333 1981

1109 LIDGREN,K., NORRBY,S. OIL AND CHEMICAL POLLUTION FROM SHIPS ECONOMICS AND CONTROL MEASURES $ THE MINISTRY OF AGRICULTURE SWEDEN 1980

1123 ANONYMOUS EXISTING AND PROPOSED PROGRAMS AND MEASURES FOR THE PREVENTION OF DISCHARGES OF OIL OR HAZARDOUS POLLUTING SUBSTANCES FROM ONSHORE AND OFFSHORE FACILITIES $ MINISTRY OF THE ENVIRONMENT OTTAWA ONTARIO 1981

MEASURING

0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

0394 KARELL,M. RELIABILITY AND SAFETY ANALYSIS OF ACTIVITY MEASURING SYSTEMS I RELIABILITY ANALYSIS OF THE STACK MONITORING SYSTEM 1317A $ AKTIEBOLAGET ATOMENERGI STUDSVIK (SWEDEN) STUDSVIK-IP-78-3 26P. 1978

0509 MEADE,N.F., ANDERSON,R.C. PROBLEMS AND PERSPECTIVES IN MEASURING THE SOCIAL COSTS OF OIL POLLUTION $ NOAA WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 59-62 1979

MEASURING
0978 SHEVELEVA,T.V., KROPOTKIN,M.A., LEUS,N.B. METHOD OF MEASURING THE THICKNESS OF AN OIL FILM ON A WATER BASIN $ SOV METEOROL HYDROL (3) P. 72-74 1980

MECHANICAL
0567 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA MARINE FUELS JANUARY 1973-OCTOBER 1981 (CITATIONS FROM INFORMATION SERVICES IN MECHANICAL ENGINEERING DATA BASE) $ PB-82-853755 67P. 1981

0753 SUCH,C., LE ROUX,C. TREATMENT OF OIL RESIDUES FROM OIL SPILLS TREATMENT METHODS AND MECHANICAL PROPERTIES $ TRAITEMENT DES DECHETS PETROLIERS ISSUS DE MAREE NOIRE METHODES DE TRAITEMENT ET CARACTERISTIQUES MECANIQUES LAB CENT DES PONTS ET CHAUSSEES FR LAB CENT PONTS CHAUSSEES BULL LIAISON LAB PONTS CHAUSSEES (1210) P. 89-100 1980

MECHANICS
0624 USAMOR,C.A. OIL SLICK DISPERSAL MECHANICS: SPREADING DISSOLUTION AND CHEMICAL DISPERSION $ RUTGERS UNIV THE STATE UNIV OF NEW JERSEY NEW BRUNSWICK NJ 442P. 1981

0625 USAMOR,C.A., AHLERT,R.C. OIL SLICK DISPERSAL MECHANICS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-105560 238P. 1981

MECHANISM
0774 TOTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CORDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

MECHANISMS
0030 ASIF,A.Y., TATTERSON,G.B. OIL WATER DISPERSION MECHANISMS IN AGITATED VESSELS $ UNIV S CAROLINA COLUMBIA SC IN: VEZIROGLU,T.N. MULTIPHASE TRANSPORT 5 VOLS FUNDAMENTALS REACTOR SAFETY APPLICATIONS P. 133-144 2932P. 1980

MEDIA
1106 CHIANG,S.Y.H. APPLICATION OF FLAME AND FLAMELESS ATOMIC-ABSORPTION METHODS TO THE "FINGERPRINTING" OF SPILLS ON WATER MEDIA OF NON-DISTILLATE PETROLEUM OILS $ CONCORDIA UNIVERSITY MONTREAL QUEBEC CANADA 1980

MEDIATED
0207 CUMMINGS,B.A., GORDON,R.C. MICROBIOLOGICALLY MEDIATED MUTAGENIC ACTIVITY OF CRUDE-OIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-82-105131 302P. 1981

MEDICINE
0175 CHMIELOWIEC,J., BESHAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN LLOYDMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

MEDIR,M
0305 GIRALT,F., MEDIR,M., MACKAY,D. OIL CONTAMINATION OF THE MEDITERRANEAN AND BEAUFORT SEAS TO CURE TO PREVENT OR TO NEGLECT $ UNIV BARCELONA FAC QUIM TARRAGONA DEPT QUIM TECN TARRAGONA SPAIN AFINIDAD 38 (373) P. 215-219 1981

MEDITERRANEAN
0007 ALBAIGES,J. FINGERPRINTING PETROLEUM POLLUTANTS IN THE MEDITERRANEAN SEA $ CSIC INST QUIM ORGAN JORGE GIRONA SALGADO BARCELONA SPAIN IN: ALBAIGES,J. ANALYTICAL TECHNIQUES IN ENVIRONMENTAL CHEMISTRY 3 P. 69-81 1980

0305 GIRALT,F., MEDIR,M., MACKAY,D. OIL CONTAMINATION OF THE MEDITERRANEAN AND BEAUFORT SEAS TO CURE TO PREVENT OR TO NEGLECT $ UNIV BARCELONA FAC QUIM TARRAGONA DEPT QUIM TECN TARRAGONA SPAIN AFINIDAD 38 (373) P. 215-219 1981

0984 SURENSEN,B.M., STURM,B., TASSAN,S. SOME RESULTS FROM EXPERIMENTS ON REMOTE-SENSING OF WATER QUALITY AND OIL POLLUTION IN THE MEDITERRANEAN SEA $ COMMISS EUROPEAN COMMUNITIES JOINT RES CTR ISPRA ITALY IN: ENVIRONM RES INST MICHIGAN PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 1 AND 2 P. 417-424 1982

MEDVEDEV,M.I
0079 BEZDRUDKO,D.V., KRUPA,A.A., MEDVEDEV,M.I., PASHCHENKO,A.A., TARASEVICH,Y. APPLICATION OF HYDROPHOBILIZED PERLITE FOR PURIFICATION OF SURFACE WATERS FROM OIL $ ACAD SCI UKSSR INST COLLOID CHEM AND WATER CHEM KIEV UKSSR UKRAINSKII KHIMICHESKII ZHURNAL 46 (1) P. 51-54 1980

MEEKS,D.G
0510 MEEKS,D.G. PERFORMANCE OF SOME OIL DISPERSANTS ON OIL SLICKS OF VARYING THICKNESS $ BRITISH PETR CO LTD BP RES CTR CHERTSEY RD SUNBURY ON THAMES MIDDLESEX ENGLAND MARINE POLLUTION BULLETIN 11 (12) P. 348-352 1980

MEIKLE,K.M
0511 MEIKLE,K.M. OIL SPILL COUNTERMEASURES FOR CANADA'S ICE-INFESTED WATERS $ DEP OF THE ENVIRON OTTAWA ONT ASME PAP N 81-PET-24 FOR MEET 7P. 1981

1071 MEIKLE,K.M., MACKAY,D., PATERSON,S. SUB-SEA CONTAINMENT OF OIL $ INSTITUTE FOR ENVIRONMENTAL STUDIES TORONTO ONTARIO 1981

MEIOFAUNA
0097 BOUCHER,G. IMPACT OF AMOCO-CADIZ OIL-SPILL ON INTER-TIDAL AND SUBLITTORAL MEIOFAUNA $ CTR ETUD OCEANOG AND BIOL MARINE ROSCOFF ROSCOFF FRANCE MARINE POLLUTION BULLETIN 11 (4) P. 95-101 1980

0278 FRICKE,A.H., HENNIG,H., ORREN,M.J. RELATIONSHIP BETWEEN OIL POLLUTION AND PSAMMOLITTORAL MEIOFAUNA DENSITY OF 2 SOUTH-AFRICAN BEACHES $ UNIV CAPE TOWN DEPT OF OCEANOG NATL RES INST OCEANOL RONDEBOSCH SOUTH AFRICA MARINE ENVIRONMENTAL RESEARCH 5 (1) P. 59-77 1981

MELENT'EVA,N.I
0512 MELENT'EVA,N.I., MALYSHEVA,I.V., KALITINA,N.N., SAVIN,L.N. ACCELERATED METHOD FOR EVALUATING CHEMICAL STABILITY OF FUELS DURING LONG-TERM STORAGE $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 843-846 1979

MELINNA-PALMATA
0876 DAUVIN,J.C. IMPACT OF AMOCO-CADIZ OIL SPILL ON THE MUDDY FINE SAND ABRA-ALBA AND MELINNA-PALMATA COMMUNITY FROM THE BAY OF MORLAIX $ STN BIOL ROSCOFF FRANCE ESTUARINE COASTAL AND SHELF SCIENCE 14 (5) P. 517-531 1982

MELLO,V
0083 BISHOP,J.M., HARRIGAN,D., MELLO,V. P CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NUMBER 2 GULF OF MAINE/GEORGES BANK $ FEDERAL EMERGENCY MANAGEMENT AGENCY WASHINGTON, D.C. AD-A103-818/1 189P. 1981

MELVILLE-BAY
0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

MELVILLE,P
0375 INMAN,D.W., HENRY,J., MELVILLE,P. SIMULATION AND QUEUING MODELS TO ASSIST PLANNING OF ACCIDENT AND EMERGENCY SERVICES $ NE THAMES REGIONAL HLTH AUTHORITY CAVELL ST LONDON ENGL IN: GREMY,F., DEGOULET,P., BARBER,B., SALAMON,R. MEDICAL INFORMATICS EUROPE 81 11 P. 266-274 1981

MELVIN,W.W
0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

MELVOLD,R
0476 LYSYJ,I., RUSHWORTH,R., MELVOLD,R., FARLOW,J. EFFECTIVENESS OF A LARGE-SCALE BALLAST TREATMENT PROCESS $ ROCKWELL INT NEWBURY PARK CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 133-137 1979

MEMBRANES
0416 KUTOWY,O., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES COUNC OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

MENIDIA-BERYLLINA
0983 SULANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND IRINECTES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MJ JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

MENON,B
0188 COMFORT,G., MENON,B., PURVES,W.F. FEASIBILITY OF WATER-SPRAY-BARRIERS AS FIREPROOF OIL SLICK CONTAINMENT DEVICES $ ARCTEC CAN LTD KANATA ONT OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S SEATTLE WASH P. 422-427 1980

MERLER,B.W
0931 MERCER,B.W., WAKAMIYA,W., PETTY,S.E., STRAND,J.A., MAHLUM,D.D. ASSESSMENT OF SYNFUEL SPILL CLEANUP OPTIONS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 15P. 1981

MERL
0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN MERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

MERONEY,R.N
0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.N. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

MESZAROS,M.H
0932 MESZAROS,M.H., JENEI,M.H., BALOGH,I.K. EFFECT OF WATER POLLUTED WITH OIL UPON BEAN-PLANTS $ JOZSEF ATTILA TUDOMANYEGYETEM SZEGED HUNGARY BOTANIKAI KOZLEMENYEK-BOTANICAL PUBLICATIONS 67 (4) P. 279-283 1980

METABOLISM
0633 PAMATMAT,M.M. BENTHIC COMMUNITY METABOLISM ON THE CONTINENTAL SHELF OF THE NORTHERN GULF OF MEXICO $ AUBURN UNIV AL 8P. 1979

0691 SAMAIN,J.F., MOAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE COZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIRRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

METABOLIZING
0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

METALS
0320 GRUGER,E.H. JR., HAWKES,J.W., MALINS,D.C. INTERACTIVE EFFECTS OF AROMATIC-HYDROCARBONS THEIR DERIVATIVES AND HEAVY METALS IN MARINE FISH $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-80-119561 121P. 1981

0769 TILLERY,J.B. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME VIII TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192452 127P. 1980

0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

METGE,M
0514 METGE,M., TELFORD,A.S. OIL IN MOVING PACK ICE LABORATORY STUDY $ ESSO RESOUR CAN LTD POAC 79 INT CONF ON PORT AND OCEAN ENG UNDER ARCTIC COND 5TH P. 255-264 1979

METHANE
0171 CHANG,K.K., BENNER,R.E. LASER-RAMAN POINT MONITORING OF METHANE VAPOR IN THE LNG STORAGE FIELD $ DEP ENG APPL SCI YALE UNIV NEW HAVEN CT PB-80-205347 39P. 1979

METHODOLOGY
0049 BALLERINI,D., VANDECASTEELE,J.P. BIODEGRADATION OF CRUDE-OIL IN A MARINE-ENVIRONMENT GENERAL METHODOLOGY $ INST FRANCAIS PETR F-92502 RUEIL MALMAISON FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 12P. 1980

0209 DAVIS,W.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

0709 SCIENCE APPLICATIONS INC LA-JOLLA CA SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME III METHODOLOGY REPORTS $ PB-80-166119 237P. 1979

1036 KARDOS,G. STUDY OF APPLICATION AND SUITABILITY OF HAZARD/RISK ANALYSIS METHODOLOGY FOR ENVIRONMENTAL CONSIDERATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-9 OTTAWA ONTARIO 1980

MEUNIER,F
0970 RAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., MEUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

MEUNIER,J
0653 POUCHELON,A., MEUNIER,J., LANGEVIN,D., CHATENAY,D., CAZABAT,A.M. LOW INTERFACIAL-TENSIONS IN 3 PHASE SYSTEMS OBTAINED WITH OIL-WATER- SURFACTANT MIXTURES $ ECOLE NORM SUPER SPECT HERTZIENNE LAB PARIS FRANCE CHEMICAL PHYSICS LETTERS 76 (2) P. 277-281 1980

MEXICAN
0438 LEE,W.Y., MORRIS,A., BOATWRIGHT,D. MEXICAN OIL SPILL A TOXICITY STUDY OF OIL ACCOMMODATED IN SEAWATER ON MARINE-INVERTEBRATES $ UNIV TEXAS INST MARINE SCI PORT ARANSAS MARINE LAB PORT ARANSAS TX MARINE POLLUTION BULLETIN 11 (8) P. 231-234 1980

MEXICO
0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

0112 BROOKS,J.M., WIESENBURG,D.A., BURKE,R.A. JR., KENNICUTT,M.C. GASEOUS AND VOLATILE HYDROCARBON INPUTS FROM A SUBSURFACE OIL SPILL IN THE GULF OF MEXICO $ DEP OCEANOGR TEXAS A AND M UNIV COLLEGE STATION TX ENVIRON SCI TECHNOL 15 (8) P. 951-9 1981

0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

0164 CARRANZAFRASER,J., SALGADO,M. PRELIMINARY RESULTS OF INVESTIGATIONS ON THE EFFECT OF THE IXTOC-I OIL SPILL ON THE ECOLOGY AND FISHERIES OF THE GULF OF MEXICO $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 33P. 1980

0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

0215 DEUTSCH,M., VOLLMERS,R.R., DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

MEXICO

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

0378 JACKSON,W.B. ENVIRONMENTAL ASSESSMENT OF AN ACTIVE OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1977-1978 VOLUME II DATA MANAGEMENT AND BIOLOGICAL INVESTIGATIONS $ NATIONAL MARINE FISHERIES SERVICE GALVESTON TX PB-80-165970 799P. 1979

0516 MIDDLEDITCH,B.S. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME V HYDROCARBONS BIOCIDES AND SULFUR $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-178451 106P. 1980

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND EI-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0633 PAMATMAT,M.M. BENTHIC COMMUNITY METABOLISM ON THE CONTINENTAL SHELF OF THE NORTHERN GULF OF MEXICO $ AUBURN UNIV AL 8P. 1979

0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192429 63P. 1980

0727 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME III BACTERIOLOGY OF A GULF OF MEXICO GAS AND OIL FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192189 54P. 1980

0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

0769 TILLERY,J.B. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME VIII TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192452 127P. 1980

MEXICO

0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

0858 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 1,2 AND 3 $ PB82-167784 218P. 1981

0859 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 4 AND 5 $ PB82-167792 210P. 1981

0860 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 6 AND 7 $ PB82-167800 522P. 1981

0861 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 8 $ PB82-167818 840P. 1981

0862 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME II $ PB82-167826 175P. 1981

0863 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME III EXECUTIVE SUMMARY $ PB82-167834 36P. 1981

0998 WIESENBURG,D.A., BODENNEC,G., BROOKS,J.M. VOLATILE LIQUID HYDROCARBONS AROUND A PRODUCTION PLATFORM IN THE NORTHWEST GULF OF MEXICO $ TEX A AND M UNIV COLLEGE STATION USA BULL ENVIRON CONTAM TOXICOL 27 (2) P. 167-174 1981

MEYER,C

0152 BURKHALTER,R., MEYER,C., MASSIN,J.M. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN FRENCH COASTAL WATERS $ LAB NATL ESSAIS PARIS FRANCE IN: COOK,J.J. PROCEEDINGS OF THE FOURTEENTH INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 3 VOLS P. 269-274 1980

MEYERS,J.L

0515 MEYERS,J.L. OIL WATER SEPARATION: GRAVITY PLATE SEPARATORS $ ENVIRON ENG LTD CEA CHEM ENG AUST CHE 5 (4) P. 36-38 1980-81

MEYERS,P.A

0933 MEYERS,P.A., TAKEUCHI,N., ROBBINS,J.A. PETROLEUM HYDROCARBONS IN SEDIMENTS OF SAGINAW-BAY LAKE HURON $ UNIV OF MICH ANN ARBOR USA J GREAT LAKES RES 6 (4) P. 315-320 1980

MICE

0901 GREGG,C.T., TIETJEN,G., HUTSON,J.Y. PRENATAL TOXICOLOGY OF SHALE-OIL RETORT WATER IN MICE $ UNIV CALIF LOS ALAMOS LOS ALAMOS NATL LAB LOS ALAMOS NM JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 795-804 1981

MICHEL,J

0227 D'UZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

MICHEL,P

0318 GRIZEL,H., MICHEL,P., ABARNOU,A., GUEGAN,B. EFFECTS OF AMOCO-CADIZ OIL SPILL ON OYSTER CULTURES $ INST SCI TECH PECHES MARITIMES LA TRINITE/MER FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOG INT P. 715-26 1981

MICRO-ALGAE

0287 GAUER,J.P., KUMAR,H.D. GROWTH RESPONSE OF FOUR MICRO-ALGAE TO THREE CRUDE-OILS AND A FURNACE-OIL $ BANARAS HINDU UNIV VARANASI INDIA ENVIRON POLLUT SER A 25 (1) P. 77-85 1981

MICRO-EMULSIONS

0177 CLAUSSE,M., BONED,C., PEYRELASSE,J., LAGOURETTE,B. , MCCLEAN,V., SHEPPARD,R.J. DIELECTRIC AND CONDUCTIVE PROPERTIES OF WATER-IN-OIL TYPE MICRO-EMULSIONS $ UNIV PAU AND PAYS ADOUR INST RECH SCI DEPT PHYS THERMODYNAM LAB PAU FRANCE IN: SHAH,D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 199-228 1981

0475 LUND,G., HOLT,S.L. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

0686 RUCKENSTEIN,E., KRISHNAN,R. EFFECT OF ELECTROLYTES AND MIXTURES OF SURFACTANTS ON THE OIL-WATER INTERFACIAL-TENSION AND THEIR ROLE IN FORMATION OF MICRO-EMULSIONS $ SUNY BUFFALO FAC ENGN AND APPL SCI BUFFALO NY JOURNAL OF COLLOID AND INTERFACE SCIENCE 76 (1) P. 201-211 1980

MICRO-ORGANISMS

0080 BHOSLE,N.B., NAVINKURVE,S. HYDROCARBON-UTILISING MICRO-ORGANISMS FROM DONA-PAULA-BAY-GOA $ NATL INST OF OCEANOGR DONA PAULA GOA INDIA MAR ENVIRON RES 4 (1) P. 53-58 1980

0985 SPARROW,E.B. LONG-TERM RESPONSE OF SOIL MICRO-ORGANISMS TO CRUDE-OIL SPILLS ON PERMA-FROST TERRAIN IN INTERIOR ALASKA USA $ INST OF WATER RESOURCES UNIV OF ALASKA FAIRBANKS ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 50-51 1981

MICROALGAE
0915 KARYDIS,M. TOXICITY OF A PHOTOOXIDIZED CRUDE-OIL ON 2 MARINE MICROALGAE $ NUCL RES CTR DEMOCRITOS DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE BOTANICA MARINA 25 (1) P. 25-29 1982

MICROBIAL
0004 AMEARN,D.G., COOK,W.L., CROW,S.A. EFFECTS OF POLLUTANTS ON MICROBIAL ACTIVITIES IN ESTUARINE SURFACE FILMS $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-171183 28P. 1981

0033 ATLAS,R.M. FATE OF OIL FROM TWO MAJOR OIL SPILLS: ROLE OF MICROBIAL DEGRADATION IN REMOVING OIL FROM THE AMOCO-CADIZ AND IXTOC-I SPILLS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY ENVIRON INT 5 (1) P. 33-8 1981

0116 BUCKLEY,E.N., PFAENDER,F.K. EFFECTS OF IXTOC-1 OIL SPILL ON OCEANIC MICROBIAL COMMUNITIES $ UNIV OF NORTH CAROLINA CHAPEL HILL NC 81ST ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBILLOGY 81 (0) 182P. 1981

0329 HAMBRICK,G.A. III, DELAUNE,R.D., PATRICK,W.H. JR. EFFECT OF ESTUARINE SEDIMENT PH AND OXIDATION-REDUCTION POTENTIAL ON MICROBIAL HYDROCARBON DEGRADATION $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-128233 6P. 1980

0363 HUROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSUPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

0470 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

0471 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 253-275 1981

0802 WARD,D.M., ATLAS,R.M., BUEHM,P.D., CALDER,J.A. MICROBIAL BIODEGRADATION AND CHEMICAL EVOLUTION OF OIL FROM THE AMOCO-CADIZ SPILL $ MONT STATE UNIV BOZEMAN AMBIO 9 (6) P. 277-283 1980

0889 FOGHT,J.M., WESTLAKE,D.W.S. EFFECT OF THE DISPERSANT COREXIT-9527 ON THE MICROBIAL DEGRADATION OF PRUDHOE-BAY OIL $ UNIV ALBERTA DEPT MICROBIOL EDMONTON ALBERTA CANADA CANADIAN JOURNAL OF MICROBIOLOGY 28 (1) P. 117-122 1982

MICROBIAL
0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

1065 WOLFE,N.L., PARIS,D.F., STEEN,W.C., BAUGHMAN,G.L. CORRELATION OF MICROBIAL DEGRADATION RATES WITH CHEMICAL STRUCTURE $ AMERICAN CHEMICAL SOCIETY 14 (9) P. 1143-1144 1980

MICROBIAL-METABOLISM
0626 DUDOIT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

MICROBIOLOGICAL
0117 BUDAY,F., SASS,L., TUROK,G., GERGELY,Z., SZAKACS,A., VORUS,I. MICROBIOLOGICAL DEGRADATION OF OIL POLLUTION OF SOILS $ HIGH PRESSURE RES INST SZASZHALOMBATTA HUNGARY ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE 27 (3) 258P. 1980

0675 ROGERS,J.E., LI,S.W. MICROBIOLOGICAL ASPECTS OF THE GROUND DISPOSAL OF OIL-SHALE WASTES $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 7P. 1978

MICROBIOLOGICALLY
0207 CUMMINGS,B.A., GORDON,R.C. MICROBIOLOGICALLY MEDIATED MUTAGENIC ACTIVITY OF CRUDE-OIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-82-105131 302P. 1981

0909 HENSON,J.M., HAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

MICROBIOLOGY
0140 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME V RECEPTORS MICROBIOLOGY CONTAMINANT BASELINES $ PB-80-186851 703P. 1979

0147 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME II: RECEPTORS MICROBIOLOGY ECOLOGICAL PROCESSES $ PB-81-196271 521P. 1980

0546 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME VI RECEPTORS MICROBIOLOGY $ PB-80-130057 502P. 1978

MICROBIOLOGY
1024 BUNCH,J.N., HARLAND,R.C., LALIBERTE,J. MICROBIOLOGY 1 EFFECTS OF OIL ON BACTERIAL ACTIVITY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-5 OTTAWA ONTARIO 1981

1025 EIMHJELLEN,K., SOMMER,T. MICROBIOLOGY 2 BIODEGRADATION OF OIL $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-6 OTTAWA ONTARIO 1981

MICROBIOTA
0930 MCKINLEY,V.L., FEDERLE,T.W., VESTAL,J.R. EFFECTS OF PETROLEUM HYDROCARBONS ON PLANT LITTER MICROBIOTA IN AN ARCTIC LAKE $ UNIV CINCINNATI DEPT BIOL SCI CINCINNATI OH APPLIED AND ENVIRONMENTAL MICROBIOLOGY 43 (1) P. 129-135 1982

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

MICROECONOMIC
0397 KARMAN,K.R., STONE,C.M. WHO CLEANS UP THE OIL? A MICROECONOMIC STUDY $ TULANE UNIV NEW ORLEANS LA ENVIRON INT 3 (2) P. 193-200 1980

MICROLAYER
0897 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

MICROORGANISMS
0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,D., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1980

0528 MURAKAMI,A., UMI,S. TREATMENT OF OIL SPILLS BY MICROORGANISMS AND ENCAPSULATED NUTRIENTS $ COLL ENG TOKYO UNIV JAPAN KANKYO KAGAKU TOKUBETSU KENKYU KENKYU HOKOKUSHO NO (889-R34) P. 141-4 1981

0678 ROGERSON,A., BERGER,J. EFFECT OF CRUDE-OIL AND PETROLEUM DEGRADING MICROORGANISMS ON THE GROWTH OF FRESH-WATER AND SOIL PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO JOURNAL OF GENERAL MICROBIOLOGY 124 P. 53-59 1981

0741 SPARROW,E.B., DAVENPORT,C.V., GORDON,R.C. RESPONSE OF MICROORGANISMS TO HOT CRUDE-OIL SPILLS IN A SUBARCTIC TAIGA SOIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB COLLEGE ALASKA PB-80-217722 16P. 1978

MICROPHYTE
0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

MICROSOME
0347 HERMANN,M., CHAUDE,D., WEILL,N., BEDOUELLE,M., HOFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

MICROWAVE
0258 FENNEN,R.G., REID,S.C., SCLIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIUKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

0874 CROSWELL,W.F., BLUME,H.J.C., JOHNSON,J.W. MICROWAVE REMOTE-SENSING MEASUREMENTS OF OIL POLLUTION OF THE OCEAN $ NASA LANGLEY RES CENT HAMPTON VA DIG - INT GEOSCI AND REMOTE SENS SYMP (IGARSS'81) 2 P. 1246-1251 1981

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

1009 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASE 1 - LITERATURE REVIEW AND FEASIBILITY STUDY $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-81-3 OTTAWA ONTARIO 1981

MIDDLEDITCH,B.S
0516 MIDDLEDITCH,B.S. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME V HYDROCARBONS BIOCIDES AND SULFUR $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-178451 106P. 1980

MIDDLEDITCH,B.S
0517 MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY EPILOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 421-432 1981

0518 MIDDLEDITCH,B.S., GALLAWAY,B.J. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY PROLOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 1-14 1981

MIGRATION
0396 KARPEN,J., GALT,J. MODELING OF OIL MIGRATION IN PUGET-SOUND $ SCI APPL INC RALEIGH NC ANNU COMB CONF OF IEEE (COUNC ON OCEANIC ENG) AND MAR TECHNOL SOC SAN DIEGO 1979

0439 LEENHEER,J.A., STUBER,H.A. MIGRATION THROUGH SOIL OF ORGANIC SOLUTES IN AN OIL-SHALE PROCESS WATER $ US GEOL SURVEY DENVER FED CTR DENVER CO ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (12) P. 1467-1475 1981

MILAN,C.S
0519 MILAN,C.S., WHELAN,T. III ACCUMULATION OF PETROLEUM HYDROCARBONS IN A SALT-MARSH ECOSYSTEM EXPOSED TO STEADY STATE OIL INPUT $ LOUISIANA STATE UNIV BATON ROUGE PB-80-128853 26P. 1979

MILGRAM,J.H
0254 FAZAL,R.A., MILGRAM,J.H. THE EFFECTS OF SURFACE PHENOMENA ON THE SPREADING OF OIL ON WATER $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-163629 73P. 1979

MILITSKIY,V.A
0077 BESPALOVA,E.A., MILITSKIY,V.A., POKROVSKAYA,I.V., MIKOVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (11) P. 54-58 1978

MILLEMANN,R.E
0300 GIDDINGS,J.M., PARKHURST,B.R., GEHRS,C.W., MILLEMANN,R.E. TOXICITY OF A COAL LIQUEFACTION PRODUCT TO AQUATIC ORGANISMS $ OAK RIDGE NATL LAB TENN BULL ENVIRON CONTAM TOXICOL 25 (1) P. 1-6 1980

MILLER,B.S
0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

MILLER,D
0059 BECK,R., ABUBA,B., MILLER,D., KAKLINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

MILLER,D.S
0639 PEAKALL,D.B., MILLER,D.S., KINTER,W.B. PHYSIOLOGICAL TECHNIQUES FOR ASSESSING THE IMPACT OF OIL ON SEABIRDS $ CAN WILDL SERV OTTAWA ONT ASTM SPEC TECH PUBL N 693 AVIAN AND MAMM WILDL TOXICOL (SYMP) NEW ORLEANS P. 52-60 1978

0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MI DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

MILLER,G.J
0190 CONNELL,D.W., MILLER,G.J. PETROLEUM HYDROCARBONS IN AQUATIC ECOSYSTEMS BEHAVIOR AND EFFECTS OF SUBLETHAL CONCENTRATIONS 1 $ GRIFFITH UNIV QUEENS LAND AUSTRALIA CRIT REV ENVIRON CONTROL 11 (1) P. 37-104 1981

MILLER,M.C
0054 BARSDATE,R.J., MILLER,M.C., ALEXANDER,V., VESTAL,J.R., HOBBIE,J.E. OIL SPILL EFFECTS (ON TUNDRA POND LIMNOLOGY) $ INST MAR SCI UNIV ALASKA FAIRBANKS AK US/IBP SYNTH SER 12 (LIMNOL TUNDRA PONDS: BARROW ALASKA) P. 388-406, 457-91 1980

MILLER,V
0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,V., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1981

MILLER,S
0934 MILLER,S. ALASKAN USA BEAUFORT SEA COASTLINE SENSITIVITY ANALYSIS AND OIL SPILL RESPONSE MANUAL $ SOHIO ALASKAN PETROLEUM CO ANCHORAGE ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 173-175 1981

MILLER,S.E
0640 PEARSON,W.H., MILLER,S.E., BLAYLOCK,J.W., OLLA,B.L. DETECTION OF THE WATER SOLUBLE FRACTION OF CRUDE-OIL BY THE BLUE-CRAB CALLINECTES-SAPIDUS $ BATTELLE PAC NORTHWEST LAB MAR RES LAB SEQUIM WASH MAR ENVIRON RES 5 (1) P. 3-12 1981

MINERAL
0638 PAUL,R., DELCARTE,E., TILMAN,J., GODEFROID,C. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF STREET TREES $ DEP BIOL VEG THEOR APPL FAC SCI AGRON ETAT GEMBLOUX BELG TRIB CEBEDEAU 33 (445) P. 547-53 1980

0652 PUPP,W. CONCERNING THE BACTERIAL TOXICITY OF MINERAL OIL FRACTIONS AND HYDRO-CARBONS $ BAYER LANDESANSTALT F WASSERFORSCH MUENCHEN GER 0 (0) P. 301-312 1978

MINERAL-OILS
0347 HERMANN,M., CHAUDE,O., WEILL,N., BEDOUELLE,H., HOENONG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

MINIMIZING
0457 LINDSTEDT-SIVA,J. MINIMIZING THE ECOLOGICAL IMPACTS OF OIL SPILLS $ ATL RICHFIELD CO LOS ANGELES CALIF ENVIRON INT 3 (2) P. 185-188 1980

MINISTRY
0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-JSCC SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

MINNESOTA
0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

MIRONOV,O.G
0065 BELOIVANENKO,V.I., MIRONOV,O.G. EFFECT OF OIL POLLUTANTS ON THE RATE OF OXYGEN PENETRATION INTO WATER $ WATER RESOUR $ (6) P. 882-885 1979

0520 MIRONOV,O.G., SHCHEKATURINA,T.L., YANOV,B.G., SIPPANETS,L.G. USE OF MUSSELS IN PURIFICATION OF OIL CONTAINING SEA WATERS $ NEFTYANOE KHOZYAISTVO (6) P. 63-65 1981

MIROVSKII,V.G
0077 BESPALOVA,E.A., MILITSKIY,Y.A., POKROVSKAYA,I.V., MIROVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (12) P. 54-58 1978

MISHINA,L.A
0521 MISHINA,L.A. METHOD FOR THE DETECTION OF GAS LEAKS $ USSR GAZOV PROM-ST SER: ISPOL'Z GAZA NAR KHOZ (REF INF) (6) P. 28-31 1981

MISSISSIPPI
0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

MISSISSIPPI
0928 MATHES,G.M. SPILLED PETROLEUM RECOVERED FROM ATOP WATER-TABLE OF MISSISSIPPI AQUIFER $ JOHN MATHES AND ASSOC INC COLUMBIA IL CIVIL ENGINEERING 52 (6) P. 58-59 1982

MISIS
1128 EYRES,A.R. GUIDELINES FOR THE DETERMINATION OF ATMOSPHERIC CONCENTRATIONS OF OIL MISTS $ CONCAWE 1981

MITIGATION
0237 DEPARTMENT OF ENERGY WASHINGTON, D.C. COMBUSTION: AN OIL SPILL MITIGATION TOOL $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 554P. 1979

0899 GOODIER,J.L., SINCLART,R.J. COMBUSTION: AN OIL SPILL MITIGATION TOOL PHASE II THE BURNING OF THE M/T BURMAH-AGATE (EX-DANALAND) $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 134P. 1981

MIXING
0181 COAST GUARD WASHINGTON, D.C. THE WINDWAVE AND TURBULENCE OBSERVATION PROGRAM (WAVTOP) THE MEASUREMENT OF PARAMETERS CONTROLLING DOWNWARD MIXING OF OIL FROM THE SEA SURFACE $ AD-A083-014/1 103P. 1979

0534 NAESS,A. EFFECT OF BREAKING WAVES ON THE MIXING OF LIQUID POLLUTANTS INTO THE SEA $ NORW HYDRODYN LAB TRONDHEIM NATL CONF PUBL INST ENG AUST (80-1) P. 198-199 1980

0535 NAESS,A. MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ NORW HYDRODYN LAB JPT J PET TECHNOL 32 (6) P. 1113-1122 1980

1143 NAESS,A. THE MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ JOURNAL OF PETROLEUM TECHNOLOGY 1979

MIYAKE,Y
0959 OGATA,M., FUJISAWA,K., MIYAKE,Y. TRANSFER OF ORGANIC SULFUR COMPOUNDS IN PETROLEUM FROM CRUDE OIL SUSPENSION TO THE MUSSEL $ MED SCH OKAYAMA UNIV OKAYAMA JAPAN IGAKU TO SEIBUTSUGAKU 103 (3) P. 243-7 1981

MOAL,J
0690 SAMAIN,J.F., MOAL,J., COUM,A., LECOR,J.R., DANIEL,J.Y. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON ZOOPLANKTON A NEW POSSIBILITY OF ECOPHYSIOLOGICAL SURVEY $ CTR OCEANOL BRETAGNE BP F-29273 BREST FRANCE HELGOLANDER MEERESUNTERSUCH- UNGEN 33 (1-4) P. 225-235 1980

0691 SAMAIN,J.F., MOAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE COZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

MOAL,J
0692 SAMAIN,J.F., MOAL,J., DANIEL,J.Y., BOUCHER,J., LEFEVRE,J. ECOPHYSIOLOGICAL EFFECTS OF OIL SPILLS FROM AMOCO-CADIZ ON PELAGIC COMMUNITIES PRELIMINARY RESULTS $ CENT OCEANOL DE BRETAGNE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 175-185 1979

MOBIL-VIGILANT
0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

MODAK,A.T
0522 MODAK,A.T. IGNITABILITY OF HIGH-FIRE-POINT LIQUID SPILLS FINAL REPORT $ FACTORY MUTUAL RESEARCH CORP NORWOOD MA 77P. 1981

MODEL
0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

0296 GEORGAKIS,C., CONGALIDIS,J., WILLIAMS,G.C. MODEL FOR NON-INSTANTANEOUS LNG AND GASOLINE SPILLS $ MIT CAMBRIDGE MASS FUEL 58 (2) P. 113-120 1979

0348 HESS,K.W., KERR,C.L. MODEL TO FORECAST THE MOTION OF OIL ON THE SEA $ NATL WEATHER SERV SILVER SPRING MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 653-663 1979

0380 JACQUES,J.M., RENSON,M., DELMOTTE,A. THE DEVELOPMENT OF A MODEL FOR BIOLOGICAL CONTROL OF SHALLOW TROPICAL WATERS SUBJECTED TO PETROLEUM THREATS $ NAECON NV DRONGEN BELGIUM IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 727-735 1981

0469 LIU,H., CHENG,A.H.D. MODIFIED FICKIAN MODEL FOR PREDICTING DISPERSION $ UNIV OF MD COLUMBIA ASCE J HYDRAUL DIV 106 (6) P. 1021-1040 1980

0481 MAGOTT,R.J., BASS,R.L. III, MORROW,T.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

0643 PERRY,W.W., ARTICOLA,W.P. STUDY TO MODIFY THE VULNERABILITY MODEL OF THE RISK MANAGEMENT SYSTEM $ ENVIRO CONTROL INC ROCKVILLE MD AD-A084-214/6 212P. 1980

0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

MODEL

0691 SAMAIN,J.F., MOAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE CUZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF PULLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABULISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NAIL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

0778 TSAHALIS,D.T. CONTINGENCY PLANNING FOR OIL SPILLS: RIVERSPILL A RIVER SIMULATION MODEL $ SHELL DEV CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 27-36 1979

0844 BIDWELL,J.B. OIL SPILL CLEAN-UP: AN ECONOMIC AND REGULATORY MODEL $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB82-147489 30P. 1981

0850 BOEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-I BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

0919 LAMPHEAR,F.C., RESTREPO,C.E. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

1034 MACKAY,D., PATERSON,S., TRUDEL,K. A MATHEMATICAL MODEL OF OIL SPILL BEHAVIOUR $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-7 OTTAWA ONTARIO 1980

1122 TSANG,G. THEORETICAL STUDY FOR GUIDANCE OF MODEL STUDY OF SUBSEA BLOWOUT CONTAINMENT DEVICE $ ENVIRONMENTAL EMERGENCY BRANCH OTTAWA ONTARIO NORTH-TECH 1980

1133 ANONYMOUS THE BEAUFORT PLANNING MODEL $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1982

1144 HUNTER,J.R. AN INTERACTIVE COMPUTER MODEL OF OIL SLICK MOTION $ JOURNAL OF OCEANOLOGY INTERNATIONAL 1980

1145 ARCHER,S.J. DRIFT INTERACTIVE COMPUTER MODEL FOR PREDICTING OIL SLICK MOVEMENT $ OFFSHORE ENVIRONMENTAL SYSTEMS LTD UK 1980

1148 BOEHM,P.D., MACKAY,D. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDROCARBONS FROM THE IXTOC-I BLOWOUT - CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1981

MODELING

0082 BISHOP,J.M. PROCEEDINGS OF THE WORKSHOP ON GOVERNMENT OIL SPILL MODELING HELD AT WALLOPS-ISLAND VIRGINIA ON NOVEMBER 7-9 1979 $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-190945 32P. 1980

MODELING

0197 CORNILLON,P.C., SPAULDING,M.L., HANSEN,K. OIL SPILL TREATMENT STRATEGY MODELING FOR GEORGES-BANK $ UNIV OF RI KINGSTON USA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 685-692 1979

0396 KARPEN,J., GALT,J. MODELING OF OIL MIGRATION IN PUGET-SOUND $ SCI APPL INC RALEIGH NC ANNU COMB CONF OF IEEE (COUNC ON OCEANIC ENG) AND MAR TECHNOL SOC SAN DIEGO 1979

0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

0700 SCHNEIDER,A.L. LIQUEFIED-NATURAL-GAS SPILLS ON WATER FIRE MODELING $ US COAST GUARD WASHINGTON, D.C. J FIRE FLAMMABILITY 12 (4) P. 302-313 1980

0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

0768 THUNVIK,R., BRAESTER,C. MODELING OF GROUND-WATER FLOW AROUND OIL STORAGE CAVERNS $ ROYAL INST TECHNOL DEPT LAND IMPROVEMENT AND DRAINAGE STOCKHOLM SWEDEN APPLIED MATHEMATICAL MODELLING 4 (3) P. 225-227 1980

0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

0920 LANFEAR,K.J., AMSTUTZ,D.E. ENVIRONMENTAL STUDIES FOR OILSPILL TRAJECTORY MODELING IN THE SOUTH-EASTERN U.S. OUTER CONTINENTAL SHELF LEASING AREA $ US GEOL SURV USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 487-495 1981

MODELLING

1038 ISANG,G. THEORETICAL STUDY FOR THE SCALE MODELLING OF SUBSEA CONTAINMENT DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-11 OTTAWA ONTARIO 1980

MODELS

0028 ARAVAMUDAN,K., RAJ,P.K., NEWMAN,E., TUCKER,W.A. BREAK-UP OF OIL ON ROUGH SEAS SIMPLIFIED MODELS AND STEP-BY-STEP CALCULATIONS $ COAST GUARD WASHINGTON, D.C. AD-A084-240/1 210P. 1979

0385 INMAN,D.W., HENRY,J., MELVILLE,P. SIMULATION AND QUEUING MODELS TO ASSIST PLANNING OF ACCIDENT AND EMERGENCY SERVICES $ NE THAMES REGIONAL HLTH AUTHORITY CAVELL ST LONDON ENGL IN: GREMY,F., DEGOULET,P., BARBER,B., SALAMUN,R. MEDICAL INFORMATICS EUROPE 81 11 P. 266-274 1981

MODELS
1015 MARKO,J.R. DEEP-WATER BLOWOUT TRAJECTORY MODELS FOR THE LANCASTER-SOUND REGION $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-2 OTTAWA ONTARIO 1982

1035 MACKAY,D., BUIST,I., MASCARENHAS,R., PATERSON,S. OIL SPILL PROCESSES AND MODELS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-8 OTTAWA ONTARIO 1980

MOELLER,P.J
0058 BECK,D.A., MOELLER,P.J. IMPLEMENTATION OF THE OFFSHORE OIL POLLUTION FUND $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 11-15 1979

MOERDOKO,W
0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWAKA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

0814 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWAKA,K., HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP II THE EVALUATION OF OIL ABSORBABILITY OF NATURAL SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 29-35 1981

0996 WIDAYAT,K.P., MOERDOKO,W., WINIATI,W., HAGIWARA,K. HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP III FORMATION AND EVALUATION OF THE NATURAL SORBENTS $ OSAKA IND RES INST OSAKA JAPAN OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (4) P. 269-75 1981

MOHTADI,M.F
0230 DUFFY,J.J., PEAKE,E., MOHTADI,M.F. OIL SPILLS ON LAND AS POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION $ UNIV CALGARY CALGARY CANADA ENVIRON INT 3 (2) P. 107-20 1980

MOLHOLT,P.A
0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MOLHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

MOLLUSCA-PELECYPODA
0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

MOLLUSK
0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIRRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

MONFORT,J.P
0489 MARCHAND,M., MONFORT,J.P., RUBIO,C. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE "AMOCO-CADIZ" OIL SPILLS $ CNEXO BREST FR AM CHEM SOC DIV ENVIRON CHEM PREPR 20 (2) P. 97-99 1980

0490 MARCHAND,M., MONFORT,J.P., RUBIO,C.A. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE AMOCO-CADIZ AND IXTOC-1 OIL SPILLS $ CTR OCEANOL BRETAGNE BREST FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 37P. 1980

MONIN,J.C
0688 SAINTPAUL,C., MONIN,J.C., DURAND,B. FAST METHOD FOR CHARACTERIZING C-1 TO C-35 HYDROCARBONS CONTAINED IN SEDIMENTARY-ROCKS AND IN OILS , INST FRANCAIS PETR PARIS FRANCE REVUE DE L INSTITUT FRANCAIS DU PETROLE 35 (6) P. 1065-1078 1980

MONITOR
0506 MCINTYRE,A.D. THE USE OF BIOLOGICAL PARAMETERS TO MONITOR OIL POLLUTION IN THE SEA $ DEPT AGR AND FISHERIES SCOTLAND MARINE LAB ABERDEEN SCOTLAND IN: BRITISH ASSOC ADVANCEMENT SCI ENERGY IN THE BALANCE P. 37-50 1980

0721 SILVUS,H.S. JR., NEWMAN,F.M., FRAZAK,J.H. DEVELOPMENT OF OIL-IN-WATER MONITOR PHASE II $ ENVIRONMENTAL MONITORING AND SUPPORT LAB CINCINNATI OHIO PB-80-226251 47P. 1980

MONITORING
0012 ALVARADO,U.R., CHAFARIS,G., CHESTEK,J., CONRAD,J., KRIPPEL,G. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: TECHNICAL VOLUME EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 464P. 1980

0013 ALVARADO,U.R. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 68P. 1980

0059 BECK,R., ABUBA,B., MILLER,D., KAKLINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

0154 BURNS,K.A., SMITH,J.L. BIOLOGICAL MONITORING OF AMBIENT WATER QUALITY THE CASE FOR USING BIVALVES AS SENTINEL ORGANISMS FOR MONITORING PETROLEUM POLLUTION IN COASTAL WATERS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ESTUARINE COASTAL AND SHELF SCIENCE 13 (4) P. 433-443 1981

MONITORING

0171 CHANG,K.K., BENNER,R.E. LASER-RAMAN POINT MONITORING OF METHANE VAPOR IN THE LNG STORAGE FIELD $ DEP ENG APPL SCI YALE UNIV NEW HAVEN CT PB-80-205347 39P. 1979

0260 FIELDER,G., TELFER,D.J., HALL,T.S., WILSON,L., PRYER,R.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD 22P. 1980

0261 FIELDER,G., TELFER,D.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 24P. 1979

0299 GIBSON,S.C., LYSYJ,I. TECHNICAL ASSISTANCE MASS-SPECTROMETER OIL MONITORING SYSTEM $ ROCKWELL INTERNATIONAL NEWBURY PARK CA AD-A096-533/5 103P. 1980

0394 KARELL,M. RELIABILITY AND SAFETY ANALYSIS OF ACTIVITY MEASURING SYSTEMS I RELIABILITY ANALYSIS OF THE STACK MONITORING SYSTEM 1317A $ AKTIEBOLAGET ATOMENERGI STUDSVIK (SWEDEN) STUDSVIK-IP-78-3 26P. 1978

0826 YOUNG,B.S., GEMICI,Y. FLOW MONITORING FOR LEAK DETECTION $ FOXBORO MUNICIPAL SALES INC FOXBORO MA IN: INSTRUMENT SOC AMER ADVANCES IN INSTRUMENTATION 35 PT 1 P. 497-502 1980

0829 ZOLLARS,G.F. REMOTE-SENSING APPLIED TO POLLUTION MONITORING 1976-JUNE 1980 (CITATIONS FROM THE INTERNATIONAL AEROSPACE ABSTRACTS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-815632 61P. 1980

MONIWA,Y

1002 MONIWA,Y., HONMA,Y. FLASH AND IGNITION POINTS OF LUBRICATING OILS $ HITACHI CO LTD HITACHI JAPAN JUNKATSU 16 (5) P. 364-9 1971

MONTANA

0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

MOORE,M.N

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

MOORE,S.L

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

MOORE,W
0642 PEPELKO,W.E., MATTOX,J.K., YANG,Y.Y., MOORE,W. JR. PULMONARY FUNCTION AND PATHOLOGY IN CATS EXPOSED 28 DAYS TO DIESEL EXHAUST $ HEALTH EFFECTS RESEARCH LAB CINCINNATI OHIO PB-81-196578 11P. 1980

MOOREHEAD,R.M
0689 UNTERBERG,W., MOOREHEAD,R.M. GUIDE FOR SPILL PREVENTION CONTROL AND COUNTERMEASURE INSPECTORS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-115296 119P. 1981

MOREL,G
0935 MOREL,G., COURTOT,P. EVOLUTION OF HYDROCARBONS IN A CONFINED MARINE SITE FOLLOWING THE PETROLEUM POLLUTION OF THE AMOCO-CADIZ $ UNIV BRETAGNE OCCIDENTALE FAC SCI AND TECH BREST FRANCE BULLETIN DE LA SOCIETE CHIMIQUE DE FRANCE PT I (11-1) P. 387-388 1981

MORITA,R.Y
0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MORITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

MORITA,Y
0603 NUMURA,A., MORITA,Y., KOGURE,Y. NITROGEN COMPOUNDS IN PETROLEUM "EM-DASH" 4 DISTRIBUTION PROFILES OF NITROGEN COMPOUNDS IN PETROLEUM BY SOLID-LIQUID CHROMATOGRAPHY $ NATL CHEM LAB FOR IND TOKYO JPN BULL CHEM SOC JPN 52 (3) P. 817-820 1979

MORLAIX
0876 DAUVIN,J.C. IMPACT OF AMOCO-CADIZ OIL SPILL ON THE MUDDY FINE SAND ABRA-ALBA AND MELINNA-PALMATA COMMUNITY FROM THE BAY OF MORLAIX $ STN BIOL ROSCOFF FRANCE ESTUARINE COASTAL AND SHELF SCIENCE 14 (5) P. 517-531 1982

MORPHOLOGY
0226 DOZOUVILLE,L., BERNE,S., GUNDLACH,E.R., HAYES,M.O. COASTAL MORPHOLOGY AND OIL SPILL POLLUTION THE AMOCO-CADIZ EXPERIENCE $ CTR OCEANOL BRETAGNE F-29273 BREST FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 557-571 1981

MORPHOLOGY
0244 ENGELHARDT,F.R., WONG,M.P., OBEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

MORRIS,A
0438 LEE,W.Y., MORRIS,A., BOATWRIGHT,D. MEXICAN OIL SPILL A TOXICITY STUDY OF OIL ACCOMMODATED IN SEAWATER ON MARINE-INVERTEBRATES $ UNIV TEXAS INST MARINE SCI PORT ARANSAS MARINE LAB PORT ARANSAS TX MARINE POLLUTION BULLETIN 11 (8) P. 231-234 1980

MORRIS,P.R
0523 MORRIS,P.R. CLEAN-UP OF OIL POLLUTION AT SEA $ WARREN SPRING LAB STEVENAGE HERTFORDSHIRE ENGL PROC EUR OFFSHORE PET CONF EXHIB 1 P. 141-148 1980

MORROW,I.B
0481 MAGUTT,R.J., BASS,R.L. III, MORROW,I.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

MORSE,L.S
0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

0695 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S. LONG-TERM EFFECTS OF THE BARGE FLORIDA OIL SPILL $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-144792 225P. 1981

MORSON,B
0524 MORSON,B., SOBEY,E. RESPONSE TO OIL SPILLS IN THE ARCTIC ENVIRONMENT: A REVIEW $ SCI APPL INC BOULDER COND OCEANS (NEW YORK) ANNU COMB CONF OF IEEE AND MAR TECHNOL SOC 1979

MORTALITY
0047 BAKER,J.R., JONES,A.M., JONES,T.P., WATSON,H.C. OTTER LUTRA-LUTRA L MORTALITY AND MARINE OIL POLLUTION $ DEPT VET PATHOL VET FIELD STN WIRRAL CHESHIRE ENGLAND BIOLOGICAL CONSERVATION 20 (4) P. 311-321 1981

MOSESMAN,N
0093 BOEHM,P.D., STEINHAUER,W.G., FIEST,D.L., MOSESMAN,N., BARAK,J.E., PERRY,G.H. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON PULLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMERIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

MOSS,T.J
0525 MOSS,T.J. QUANTITATIVE TECHNIQUES FOR NUCLEAR PLANT SAFETY ASSESSMENT AND DESIGN $ AUSTRALIAN ATOMIC ENERGY COMMISSION GOUGEE 9P. 1978

MOSSMORRIS,A.L
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.K., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

MOTION
0348 HESS,K.W., KERR,C.L. MODEL TO FORECAST THE MOTION OF OIL ON THE SEA $ NATL WEATHER SERV SILVER SPRING MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 653-663 1979

0792 VENKATESH,S., SAHOTA,H.S., RIZKALLA,A.S. PREDICTION OF THE MOTION OF OIL SPILLS IN CANADIAN ARCTIC WATERS $ ATMOS ENVIRON SERV DOWNSVIEW ONT CAN PROC - OIL SPILL LOS ANGELES CALIF P. 677-683 1979

1144 HUNTER,J.K. AN INTERACTIVE COMPUTER MODEL OF OIL SLICK MOTION $ JOURNAL OF OCEANOLOGY INTERNATIONAL 1980

MOUNTING
0728 SKAALEN,C.I., RAUSCH,A.B. ENGINEERING EVALUATION OF SORBENT DISPENSING/COLLECTION SYSTEM UNIVERSAL MOUNTING ARRANGEMENT $ CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA AD-A078-431/4 46P. 1979

MOUSSA,A.N
0658 RAJ,P.P.K., MOUSSA,A.N., ARAVAMUDAN,K. EXPERIMENTS INVOLVING POOL AND VAPOR FIRES FROM SPILLS OF LIQUEFIED-NATURAL-GAS ON WATER $ COAST GUARD WASHINGTON, D.C. AD-A077-073/5 259P. 1979

MOVEMENT
0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BOECKOSIMUS-(ONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

0458 LISSAUER,I.M. FORECASTING THE MOVEMENT OF OIL SPILLS $ US COAST GUARD RES AND DEV CENT GROTON CONN ENVIRON INT 3 (2) P. 145-150 1980

MOVEMENT
0565 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SLICK MOVEMENT 1964-JUNE 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-807570 50P. 1981

0794 VERHAGEN,L.H.J.M. ERGONOMIC ASPECTS OF CENTRALIZED SUPERVISION AND CONTROL OF OIL MOVEMENT AND STORAGE $ TWENTE UNIV TECHNOL WORKING GROUP ERGON ENSCHEDE NETHERLANDS IN: AUNE,A.B., VLIESTSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS P. 57-61 1980

1068 COPENHAVER,E.D., WILKINSON,B.K. MOVEMENT OF HAZARDOUS SUBSTANCES IN SOIL A BIBLIOGRAPHY VOLUME 2 PESTICIDES $ PB80-113111 228P. 1979

1145 ARCHER,S.J. DRIFT INTERACTIVE COMPUTER MODEL FOR PREDICTING OIL SLICK MOVEMENT $ OFFSHORE ENVIRONMENTAL SYSTEMS LTD UK 1980

MOVEMENTS
0445 LEHR,W.J., CEKIRGE,H.M. OIL SLICK MOVEMENTS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV DEPT MATH SCI DHAHRAN SAUDI ARABIA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 737-741 1981

MOYSE,C
1007 SAMSON,A.L., VANDERMEULEN,J.H., WELLS,P.G., MOYSE,C. A SELECTED BIBLIOGRAPHY ON THE FATE OF OIL POLLUTION RELEVANT TO THE CANADIAN MARINE ENVIRONMENT $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-5 OTTAWA ONTARIO 1980

MUD-CRAB
0205 CUCCI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB "EURYPANOPEUS-DEPRESSUS" $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203503 9P. 1979

MUELLER,D
0344 HELLMANN,H., MUELLER,D. TESTING THE TECHNICAL EFFICIENCY AND THE TOXICITY OF CHEMICAL AGENTS FOR DISPERSION OF CRUDE-OIL ON WATER SURFACES $ BUNDESANST GEWAESSERKD.KOBLENZ FED REP GER DTSCH GEWAESSERKD MITT 25 (2) P. 56-9 1981

MUKATANOV,A.K
0526 MUKATANOV,A.K., RIVKIN,P.R. INFLUENCE OF PETROLEUM ON SOIL PROPERTIES $ NEFTYANOE KHOZYAISTVO (4) P. 53-54 1980

MUKHATANOV,A.K
0018 ANDRESON,K.K., MUKHATANOV,A.K., BOIKO,T.F. ECOLOGICAL CONSEQUENCES OF SOIL POLLUTION WITH OIL $ ACAD SCI USSR INST BIOL UFA SOVIET JOURNAL OF ECOLOGY 11 (6) P. 340-344 1980

MUKHERJEE,H
0527 MUKHERJEE,H., BRILL,J.P., BEGGS,H.D. EXPERIMENTAL STUDY OF OIL WATER FLOW IN INCLINED PIPES $ JOHNSTON MACCO SCHLUMBERGER SUGERLAND TX JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME 103 (1) P. 56-66 1981

MULTIFREQUENCY

0258 FENNER,R.G., REID,S.C., SOLIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

MUNDHEIM,O

0936 MUNDHEIM,O., TOERHAUG,M., HELGAKER,P. OFFSHORE BLOWOUT CONTROL $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING OSLO (NORWAY) 203P. 1981

MUNICIPAL

0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF CORDELLE GEORGIA EXPLOSION AND FIRE CORDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

MURAKAMI,A

0528 MURAKAMI,A., OMI,S. TREATMENT OF OIL SPILLS BY MICROORGANISMS AND ENCAPSULATED NUTRIENTS $ CULL ENG TOKYO UNIV JAPAN KANKYO KAGAKU TOKUBETSU KENKYU KENKYU HOKOKUSHO NO (889-R34) P. 141-4 1981

MURAKAMI,Y

0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

MURASHEV,I.A

0001 ABRAMZON;A.A., MURASHEV,I.A., SEMANOV,G.N. REQUIREMENTS FOR SURFACE-ACTIVE AGENTS (SAAS) USED AS PETROLEUM COLLECTORS $ LENSOVET TECHNOL INST LENINGRAD USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (6) P. 979-982 1980

MURASHEV,I.A

0529 MURASHEV,I.A., SHUKIN,V.V., SEMANOV,G.N. USE OF SURFACTANTS AS COLLECTORS OF PETROLEUM $ USSR TR - TSENTR NAUCHNO-ISSLED INST MORSK FLOTA 257 P. 67-72 1980

MURPHY,B.L

0629 UZKAYNAK,H., MURPHY,B.L., WATSON,J.L. COMPARATIVE RISK ASSESSMENT TECHNIQUE FOR TANKER OIL SPILLS $ ENVIRON RES AND TECHNOL INC LEXINGTON MASS PROC - OIL SPILL LOS ANGELES CALIF P. 37-43 1979

MURPHY,D.L

0459 LISSAUER,I.M., MURPHY,D.L. OIL SPILL FORECASTING WHERE IS IT GOING? $ US COAST GUARD RES AND DEV CENT GROTON CONN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 649-652 1979

MURRAY,F.W

0530 MURRAY,F.W., JAQUETTE,D.L., KING,W.S. HAZARDS ASSOCIATED WITH THE IMPORTATION OF LIQUEFIED-NATURAL-GAS $ RAND CORP REP 69P. 1976

MURRAY,L
0067 BENDER,M.E., SHEARLS,E.A., HUGGETT,R.J., MURRAY,L. ECOLOGICAL EFFECTS OF EXPERIMENTAL OIL SPILLS IN EASTERN COASTAL PLAIN ESTUARIES $ VA INST OF MAR SCI GLOUCESTER POINT ENVIRON INT 3 (2) P. 121-133 1980

MURZAKUV,R.M
0531 MURZAKUV,R.M., SABANENKOV,S.A., SYUNYAEJ,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 674-677 1980

MUSSEL
0959 UGATA,M., FUJISAWA,K., MIYAKE,Y. TRANSFER OF ORGANIC SULFUR COMPOUNDS IN PETROLEUM FROM CRUDE OIL SUSPENSION TO THE MUSSEL $ MED SCH OKAYAMA UNIV OKAYAMA JAPAN IGAKU TO SEIBUTSUGAKU 103 (3) P. 243-7 1981

MUSSELS
0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-168 1981

0520 MIKUNOV,O.G., SHCHEKATURINA,T.L., YANOV,P.G., STEPANETS,L.G. USE OF MUSSELS IN PURIFICATION OF OIL CONTAINING SEA WATERS $ NEFTYANOE KHOZYAISTVO (6) P. 63-65 1981

0820 WISE,S.A., CHESLER,S.N., GUENTHER,F.R., HERTZ,H.S. HILPERT,L.R. INTERLABORATORY COMPARISON OF DETERMINATIONS OF TRACE LEVEL HYDROCARBONS IN MUSSELS $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-140253 6P. 1980

MUTAGENIC
0207 CUMMINGS,B.A., GORDON,R.C. MICROBIOLOGICALLY MEDIATED MUTAGENIC ACTIVITY OF CRUDE-OIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-82-105131 30ZP. 1981

0347 HERMANN,M., CHAUDE,D., WEILL,N., BEDOUELLE,M., HUPHUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

0855 BROWN,K.W., DUNNELLY,K.C. MUTAGENIC POTENTIAL OF WATER CONCENTRATES FROM THE EFFLUENT OF A WASTE OIL STORAGE POND $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (4) P. 424-429 1982

MUTAGENICITY
0219 DICKSON,J.G., ADAMS,V.D. EVALUATION OF MUTAGENICITY TESTING OF EXTRACTS FROM PROCESSED OIL-SHALE $ OFFICE OF WATER RESEARCH AND TECHNOLOGY WASHINGTON, D.C. PB-80-203458 52P. 1980

MUTAGENICITY
0661 RAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HO,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

0881 ELLENTON,J.A., HALLETT,D.J. MUTAGENICITY AND CHEMICAL ANALYSIS OF ALIPHATIC AND AROMATIC FRACTIONS OF PRUDHOE-BAY CRUDE-OIL AND FUEL-OIL-NO-2 $ DEPT ENVIRONM DIV WILDLIFE TOXICOL NATL WILDLIFE RES CTR OTTAWA CANADA JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 959-972 1981

1056 GEORGHIOU,P.E. A STUDY OF THE MUTAGENICITY OF RESIDUE RESULTING FROM THE BURNING OF CRUDE-OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-29 OTTAWA ONTARIO 1982

MUTAGENS
0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BROWNS,W.A., CUMMING,K.B. WATER CHLORINATION 3 P. 845-850 1980

MUTANT
0775 TRACY,K.D., ZITRIDES,T.G. MUTANT BACTERIA AID EXXON WASTE SYSTEM $ ENVIRON DYN INC GREENVILLE SC HYDROCARBON PROCESS 59 (10) P. 95-98 1979

MUZIKAR,R
0532 MUZIKAR,R. (ED) INTERNATIONAL SYMPOSIUM ON GROUND-WATER POLLUTION BY OIL HYDROCARBONS PROCEEDINGS 1978 $ INT SYMP ON GROUND WATER POLLUT BY OIL HYDROCARBONS PROC PRAGUE CZECH 1978

MV-REGAL-SWORD
0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

MYERS,A
1066 MYERS,A. CURRENT BIBLIOGRAPHY OF OFFSHORE TECHNOLOGY AND OFFSHORE LITERATURE CLASSIFICATION $ ASR MARKETING BERKHAMSTED HERTZ 1981

MYERS,A.A
0533 MYERS,A.A., SOUTHGATE,T., CROSS,T.F. DISTINGUISHING THE EFFECTS OF OIL POLLUTION FROM NATURAL CYCLICAL PHENOMENA ON THE BIOTA OF BANTRY-BAY IRELAND $ NATL UNIV IRELAND UNIV COLL CORK DEPT ZOOL CORK IRELAND MARINE POLLUTION BULLETIN 11 (7) P. 204-207 1980

MYKLATUN,B
0779 TVEIT,O.J., MYKLATUN,B., BOHLER,T., VESTERHAUG,O. RISK ANALYSIS OF A TYPICAL NORTH SEA PETROLEUM PRODUCTION PLATFORM $ DET NOR VERITAS NORW OFFSHORE TECHNOL CONF 12TH ANNUAL PROC 4 P. 501-508 1980

MYLES,K.M
0386 JOHNSON,I., MYLES,K.M., SICZEK,A.A. SAMPLING AND ANALYSIS OF HYDROCARBONS IN COMBUSTION GASES QUARTERLY REPORT APRIL-JUNE 1980 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1980

MYTILUS-EDULIS
0885 FARRINGTON,J.W., DAVIS,A.C., FREW,N.M., RABIN,K.S. NO-2-FUEL-OIL COMPOUNDS IN MYTILUS-EDULIS RETENTION AND RELEASE AFTER AN OIL SPILL $ WOODS HOLE OCEANOG INST DEPT CHEM WOODS HOLE MA MARINE BIOLOGY 66 (1) P. 15-26 1982

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

NADEAU,S
0479 MACKAY,D., WATSON,A., NG,C., NADEAU,S. BEHAVIOR AND EFFECTIVENESS OF DISPERSANTS AT SEA AND AT SHORELINES $ UNIV OF TORONTO ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 447-452 1979

NAESS,A
0534 NAESS,A. EFFECT OF BREAKING WAVES ON THE MIXING OF LIQUID POLLUTANTS INTO THE SEA $ NORW HYDRODYN LAB TRONDHEIM NATL CONF PUBL INST ENG AUST (80-1) P. 198-199 1980

0535 NAESS,A. MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ NORW HYDRODYN LAB JPT J PET TECHNOL 32 (6) P. 1113-1122 1980

0937 NAESS,A. ON THE RESIDENCE TIME OF OIL MIXED INTO THE WATER COLUMN BY BREAKING WAVES $ NORW HYDRODYN LAB OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 497-508 1981

NAGY,E
0710 SCOTT,B.F., NAGY,E., SHERRY,J.P., DUTKA,B.J., GLOUSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER $ NATL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

1088 NAGY,E., SCOTT,B.F., HART,J. THE FATE OF OIL AND DISPERSANT MIXTURES IN FRESHWATER ECOSYSTEMS $ NATIONAL WATER RESEARCH INSTITUTE ENVIRONMENT CANADA BURLINGTON ONTARIO 1980

NAKADA,K
0761 TAKAHASHI,T., KITAMURA,Y., NAKADA,K. SPREADING OF OIL SLICKS ON CALM WATER SURFACES EFFECT OF THE VISCOUS DRAG OF AN OIL SLICK ON ITS SPREADING RATE $ OKAYAMA UNIV JPN IND CHEM ENG 21 (2) P. 244-250 1981

NAKAMURA,A
0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

NAKANO,H
0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

NAKASSIS,A
0976 SAMUELS,W.B., LANFEAR,K.J., NAKASSIS,A. OIL SPILL RISK ANALYSIS FOR THE KODIAK-ISLAND $ GEOLOGICAL SURVEY RESTON VA 99P. 1980

NANTICOKE
0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-8[illegible]/9 31P. 1981

NANTUCKET
0357 HOFFMAN,E.J., QUINN,J.G. A COMPARISON OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS FROM NANTUCKET SHOALS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231508 12P. 1981

NAPERVILLE
0372 ILLINOIS INST OF NATURAL RESOURCES WASHINGTON, D.C. WASTE OIL MANAGEMENT CONFERENCE ROAD TO RECOVERY 80 PROCEEDINGS HELD AT AMOCO RESEARCH CENTER NAPERVILLE ILLINOIS ON APRIL 3 1980 $ PB-80-224876 134P. 1980

NAPHTHALENE
0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

NATURAL-GAS
0538 NATIONAL INDUSTRIAL POLLUTION CONTROL COUNCIL WASHINGTON, D.C. THE NATURAL-GAS INDUSTRY AND THE ENVIRONMENT $ 21P. 1972

0570 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA NATURAL-GAS: BULK CARRIERS JANUARY 1974-JULY 1981 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB-81-872269 75P. 1981

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

NATURAL-GAS

0591 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSION 215 THIRD STREET SE WASHINGTON, D.C. OCTOBER 30 1979 $ PB-80-213457 33P. 1980

0592 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSIONS AT ANNANDALE VIRGINIA MARCH 24 1972 $ PB-214-328/7 42P. 1972

0595 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT PENNSYLVANIA GAS AND WATER COMPANY NATURAL-GAS EXPLOSIONS WILLIAMSPORT PENNSYLVANIA JANUARY 25 1977 $ PB-277-052/7ST 26P. 1977

0596 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA NATURAL-GAS: MARINE TRANSPORTATION 1964 OCTOBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-82-801646 169P. 1981

0638 PAUL,R., DELCARIE,E., TILMAN,J., GODEFROID,L. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF STREET TREES $ DEP BIOL VEG THEOR APPL FAC SC. AGRON ETAT GEMBLOUX BELG TRIB CEBEDEAU 33 (445) P. 547-53 1980

0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

NAVIGATION

0191 COOK,R.C., MARINO,K.L., COOPER,R.B. A SIMULATOR STUDY OF DEEPWATER PORT SHIPHANDLING AND NAVIGATION PROBLEMS IN POOR VISIBILITY $ COAST GUARD WASHINGTON, D.C. AD-A100-656/8 190P. 1981

NAVIGATIONAL

0894 FUGLUM,A., SMITH R.H., BRATIANU,V., LAWRENCE,W.H.K., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.K. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

NAVY

0176 CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA CARGO FIRE HAZARDS AND HAZARD CONTROL FOR THE SUPPLEMENT FUEL SUPPLY ASSEMBLY (SFSA) $ 44P. 1980

NEAL,J.D

0597 NEAL,J.D. SIMPLE METHOD FOR THE DIFFERENTIATION OF FUEL-OIL AND WEATHERED CRUDE-OIL POLLUTANTS $ LAB GOV CHEM LONDON ENGL ANALYST (LONDON) 106 (1260) P. 373-4 1981

NEARSHORE
0715 SHAW,D.G., CLEMENT,L.E., MCINTOSH,D.J. SOME EFFECTS OF PETROLEUM ON NEARSHORE ALASKAN MARINE ORGANISMS $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-81-159147 93P. 1981

0840 BEDINGER,C.A., NULTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-1 BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV $ HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 29 (2) P. 166-171 1982

NECHES
0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

NEDERLAND
0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

NEEDS
1057 KEIZER,P.D. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY - ATLANTIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-30 OTTAWA ONTARIO 1982

1062 GREEN,D., HUMPHREY,B., FOWLER,B. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY: PACIFIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-36 OTTAWA ONTARIO 1982

1072 DEACON,G. OIL POLLUTION IN THE MARINE ENVIRONMENT SOME RESEARCH NEEDS $ ROYAL SOCIETY OF LONDON 1980

NEFF,D.E
0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.N. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

NEGILSKI,D.S
0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

NELSON,W.G
0853 BUNSDORFF,E., NELSON,W.G. FATE AND EFFECTS OF EKOFISK CRUDE-OIL IN THE LITTORAL OF A NORWEGIAN FJORD $ INST MAR BIOL UNIV BERGEN BLOMSTERDALEN NORWAY SARSIA 66 (3) P. 231-40 1981

NEMOTO,I
0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KUKIUKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1973

NEPCO-140
0632 PALM,D.J., ALEXANDER,M.M., PHILLIPS,D.M., LUNGAREUCCO,P. DAMAGE ASSESSMENT STUDIES FOLLOWING THE NEPCO-140 OIL SPILL ON THE ST.-LAWRENCE RIVER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-154594 175P. 1979

NESTERUVA,M.P
0599 NESTERUVA,M.P., ANUFRIEVA,N.M., GURITSKII,A.B., SHUTER,L.M., VERLINSKAYA,R.M. REMOVAL OF OIL POLLUTANTS FROM WATER BODIES BY MEANS OF HYDROPHOBIC SORBENTS $ WATER RESOUR 7 (4) P. 375-379 1980

0958 NESTERUVA,M.P., ANUFRIEVA,N.M., LEVINA,R.M. INVESTIGATION OF CHEMICAL AGENTS CONTAINING THE SPREAD OF OIL ON A WATER SURFACE $ WATER RESOUR 8 (1) P. 85-91 1981

NESTING
0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TECHNICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

NESTLING
0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

NEUSTADTER,E
0600 NEUSTADTER,E., WHITTINGHAM,K.P., GRAHAM,D.E. INTERFACIAL RHEOLOGICAL PROPERTIES OF CRUDE-OIL-WATER SYSTEMS $ PB RES CTR DIV NEW TECHNOL SUNBURY THAMES MIDDLESEX ENGLAND IN: SHAH, D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 307-326 1981

NEVADA
0718 SHINN,J.H., CEDERWALL,R.T. SELECTING OPTIMUM PERIODS FOR ATMOSPHERIC DISPERSION TESTS OVER WATER SURFACES AT FRENCHMAN FLAT NEVADA TEST SITE $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 12P. 1981

NEVILLE,R.A
1052 O'NEIL,R.A., THOMSON,V., NEVILLE,R.A. REMOTE-SENSING OF OIL DURING THE KURDISTAN SPILL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-25 OTTAWA ONTARIO 1981

NEW-YORK
0150 BUREAU OF LAND MANAGEMENT NEW-YORK ASSESSMENT OF SPACE AND USE CONFLICTS BETWEEN THE FISHING AND OIL INDUSTRIES VOLUME II ENGINEERING ASSESSMENT $ PB-81-215972 156P. 1981

0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

NEW-YORK
0079 BISHOP,J.M. A CLIMATOLOGICAL OIL SPILL PLANNING GUIDE NO 1 THE NEW-YORK BIGHT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON,D.C. 1980

NEWMAN,F
0028 AKAVAMUDAN,K., RAJ,P.K., NEWMAN,F., TUCKER,W.A. BREAK-UP OF OIL ON ROUGH SEAS SIMPLIFIED MODELS AND STEP-BY-STEP CALCULATIONS $ COAST GUARD WASHINGTON, D.C. AD-A084-240/1 210P. 1979

NEWMAN,F.M
0721 SILVUS,H.S. JR., NEWMAN,F.M., FRAZAR,J.A. DEVELOPMENT OF OIL-IN-WATER MONITOR PHASE II $ ENVIRONMENTAL MONITORING AND SUPPORT LAB CINCINNATI OHIO PB-80-226251 47P. 1980

NG,L
0479 MACKAY,D., WATSON,A., NG,C., VADEAU,S. BEHAVIOR AND EFFECTIVENESS OF DISPERSANTS AT SEA AND AT SHORELINES $ UNIV OF TORONTO ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 441-452 1979

NG,J
0429 LAUGHLIN,R.B. JR., NG,J., GUARD,H.E. HORMESIS: A RESPONSE TO LOW ENVIRONMENTAL CONCENTRATIONS OF PETROLEUM HYDROCARBONS $ NAVAL BIOSCIENCES LAB OAKLAND CA AD-A097-079/6 4P. 1980

NICHOLS,J.A
0810 WHITE,I.C., NICHOLS,J.A., GARNETT,M.J. TEN YEAR OVERVIEW OF OIL SPILL CLEAN-UP AT SEA $ POLLUT FED LTD LONDON ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 247-251 1979

NICHOLS,J.P
0974 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,L.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME I $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217852 332P. 1982

0975 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,L.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME II EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA

NICHOLS,L.D
0601 NICHOLS,L.D. UNDERSTANDING AND IMPROVING SORBENTS FOR FLOATING OIL $ NATIONAL SCIENCE FOUNDATION WASHINGTON, D.C. PB-81-178097 48P. 1974

NICKELS,J.S
0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

NICOL,J.A.C

0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TECHNICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

NITROGEN

0603 NOMURA,A., MORITA,Y., KOGURE,T. NITROGEN COMPOUNDS IN PETROLEUM "EM-DASH" 4 DISTRIBUTION PROFILES OF NITROGEN COMPOUNDS IN PETROLEUM BY SOLID-LIQUID CHROMATOGRAPHY $ NATL CHEM LAB FOR IND TOKYO JPN BULL CHEM SOC JPN 52 (3) P. 817-820 1979

0661 RAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HO,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

NITROGEN-COMPOUNDS

0354 HO,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., RAO,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

NO.-2-FUEL-OIL

0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN MERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

0384 JOHNS,D.M., PECHENIK,J.A. INFLUENCE OF THE WATER-ACCOMMODATED FRACTION OF NO.-2-FUEL-OIL ON ENERGETICS OF "CANCER-IRRORATUS" LARVAE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT, RI PB-81-185720 10P. 1981

NO-2-FUEL-OIL

0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., HAUE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

NO-2-FUEL-OIL
0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TEURICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

0885 FARRINGTON,J.W., DAVIS,A.C., FREW,N.M., RABIN,K.S. NO-2-FUEL-OIL COMPOUNDS IN MYTILUS-EDULIS RETENTION AND RELEASE AFTER AN OIL SPILL $ WOODS HOLE OCEANOG INST DEPT CHEM WOODS HOLE MA MARINE BIOLOGY 66 (1) P. 15-26 1982

0896 GEARING,P.J., GEARING,J.N. BEHAVIOR OF NO-2-FUEL-OIL IN THE WATER COLUMN OF CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 115-132 1982

0897 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

0962 UVIATI,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

NOAA-USCG
0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

NOBUNAGA,H
0602 NOBUNAGA,H. ANTI-OCEAN-POLLUTION EQUIPMENT AND SHIPS FOR RECOVERING SPILT OIL $ WORKSHIP DES DEP ISHIKAWAJIMA-HARIMA HEAVY IND CO LTD TOKYO JAPAN KENKYO OYOBI KENSHO 47 (8) P. 651-68 1980

NOMURA,A
0603 NOMURA,A., MORITA,Y., KOGURE,Y. NITROGEN COMPOUNDS IN PETROLEUM "EM-DASH" 4 DISTRIBUTION PROFILES OF NITROGEN COMPOUNDS IN PETROLEUM BY SOLID-LIQUID CHROMATOGRAPHY $ NATL CHEM LAB FOR IND TOKYO JPN BULL CHEM SOC JPN 52 (3) P. 817-820 1979

NON-DISTILLATE
1106 CHIANG,S.Y.H. APPLICATION OF FLAME AND FLAMELESS ATOMIC-ABSORPTION METHODS TO THE "FINGERPRINTING" OF SPILLS ON WATER MEDIA OF NON-DISTILLATE PETROLEUM OILS $ CONCORDIA UNIVERSITY MONTREAL QUEBEC CANADA 1980

NON-INSTANTANEOUS
0296 GEORGAKIS,C., CONGALIDIS,J., WILLIAMS,G.C. MODEL FOR NON-INSTANTANEOUS LNG AND GASOLINE SPILLS $ MIT CAMBRIDGE MASS FUEL 58 (2) P. 113-120 1979

NON-IONIC
0214 DEPRAETERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

0731 SMIRNOVA,A.V., PLOTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

NORMAN-WELLS
1117 ROSS,S.L. NORMAN-WELLS OILFIELD EXPANSION OIL SPILL SCENARIOS AND COUNTERMEASURES $ S.L. ROSS ENVIRONMENTAL RESEARCH LTD NWT 1980

NORONHA,R.J
0271 FONDEKAR,S.P., TOPGI,R.S., NORONHA,R.J. DISTRIBUTION OF PETROLEUM HYDROCARBONS IN GOA COASTAL WATERS $ NATL INST OCEANOG GOA INDIA INDIAN JOURNAL OF MARINE SCIENCES 9 (4) P. 286-288 1980

0991 TOPGI,R.S., NORONHA,R.J., FONDEKAR,S.P., SENGUPTA,R. DISSOLVED PETROLEUM HYDROCARBONS ALONG THE OIL TANKER ROUTE IN THE SOUTHERN BAY OF BENGAL $ NATL INST OCEANOG DONA PAULA DAMAN AND DIU INDIA INDIAN JOURNAL OF MARINE SCIENCES 11 (2) P. 175-176 1982

NORRBY,S
1109 LINDGREN,K., NORRBY,S. OIL AND CHEMICAL POLLUTION FROM SHIPS ECONOMICS AND CONTROL MEASURES $ THE MINISTRY OF AGRICULTURE SWEDEN 1980

NORTH-SEA
0609 NUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

NORTON,M.G
1087 NORTON,M.G., FRANKLIN,F.L. FISHERIES RESEARCH TECHNICAL REPORT 457 $ MINISTRY OF AGRICULTURE FISHERIES AND FOOD LOWESTOFT 20P. 1980

NORTON,R.L
0604 NORTON,R.L., SAKAIDA,R.R., YAMADA,M.M. HYDROCARBON CONTROL STRATEGIES FOR GASOLINE MARKETING OPERATIONS $ ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PK NC PB-80-194632 123P. 1978

NORWAY
0622 ONEILL,T. OIL SPILL CONTINGENCY PLANS AND POLICIES IN NORWAY AND THE UNITED-KINGDOM $ YALE UNIV SCH FORESTRY AND ENVIRONM STUDIES NEW HAVEN CT COASTAL ZONE MANAGEMENT JOURNAL 7 (4) P. 289-317 1980

NORWEGIAN
0048 BAKKE,T., JOHNSEN,T.M. RESPONSE OF A SUBTIDAL SEDIMENT COMMUNITY TO LOW LEVELS OF OIL HYDROCARBONS IN A NORWEGIAN FJORD $ INST OF MAR RES NORDNES-BERGEN NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 633-639 1979

0806 WESTBY,K.A. OIL SPILL PREPAREDNESS AND CONTINGENCY PLANNING FOR THE NORWEGIAN CONTINENTAL SHELF $ PHILLIPS PETR EXPLORAT UK LTD TEESIDE ENGLAND IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 157-174 1981

0853 BUNSDORFF,E., NELSON,W.G. FATE AND EFFECTS OF EKOFISK CRUDE-OIL IN THE LITTORAL OF A NORWEGIAN FJORD $ INST MAR BIOL UNIV BERGEN BLOMSTERDALEN NORWAY SARSIA 66 (3) P. 231-40 1981

NORWOOD,C.B
0221 DIMOCK,C.W., LAKE,J.L., NORWOOD,C.B., BOWEN,R.D., HOFFMAN,E.J. FIELD AND LABORATORY METHODS FOR INVESTIGATING A MARINE GASOLINE SPILL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-185712 5P. 1981

0420 LAKE,J.L., DIMOCK,C.W., NORWOOD,C.B. COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ EPA NARRAGANSETT RI ADV CHEM SER 185 PET IN THE MAR ENVIRON SYMP AT THE MEET OF THE ACS P. 343-360 1980

0421 LAKE,J.L., DIMOCK,C.W., NORWOOD,C.B. A COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-165839 20P. 1981

NUTINI,M
0605 NUTINI,M., MATTSSON,J., LINDEN,O. DISPERSAL AND EFFECTS OF THE ANTONIO-GRAMSCI OIL SPILL IN THE STOCKHOLM ARCHIPELAGO $ SWEDISH WATER AND AIR POLLUTION RESEARCH LAB FRYKSTA 32P. 1980

0606 NUTINI,M. CONTENTS AND LONG TIME EFFECTS IN THE LITTORAL ZONE AFTER AN OIL SPILL A TWO YEAR STUDY OF THE TSESIS OIL SPILL $ 16P. 1980

NOUNOU,P
0607 NOUNOU,P. OIL SPILL AGE: FATE AND EFFECTS OF OIL IN THE MARINE ENVIRONMENT $ CENT NATL POUR L'EXPLOIT DES OCEANS PARIS FR AMBIO 9 (6) P. 297-302 1980

NOVEL
0291 GEE,T., VANDERKOOY,N. DEVELOPMENT OF A NOVEL ICE OIL BOOM FOR FLOWING WATERS $ ENVIRON CAN BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 377-385 1979

NOVIKOV,V.I
0066 BELOUS,A.R., NOVIKOV,V.I., IZOTOV,V.I. DETERMINATION OF TEL CONTENT IN GASOLINES BY GAMMA-ABSORPTION METHOD $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 913-914 1979

NOYES,T.I
1003 LEENHEER,J.A., STUBER,H.A., NOYES,T.I. CHEMICAL AND PHYSICAL INTERACTIONS OF AN IN SITU OIL-SHALE PROCESS WATER WITH A SURFACE SOIL $ US GEOL SURV DENVER COLO OIL SHALE SYMP PROC 14TH GOLDEN COLO P. 357-375 1981

NUCLEAR
0525 NUSS,I.J. QUANTITATIVE TECHNIQUES FOR NUCLEAR PLANT SAFETY ASSESSMENT AND DESIGN $ AUSTRALIAN ATOMIC ENERGY COMMISSION GOUGEE 9P. 1978

0795 VETTERKIND,D.W. ACQUISITION AND APPLICATION OF RELIABILITY INFORMATION FOR THE PLANNING AND MAINTENANCE OF NUCLEAR POWER PLANTS $ RHEINISCH-WESTFAELISCHES ELEKTRIZITAETSWERK A.G. ESSEN GERMANY 11P. 1979

NULTON,C.P
0840 BEDINGER,C.A., NULTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-1 BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV S HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

NUMBER-2-FUEL-OIL
0837 ATEMA,J., KARNOFSKY,E.B., OLESZKO-SZUTS,S., BRYANT,B. LOBSTER BEHAVIOR AND CHEMORECEPTION: SUBLETHAL EFFECTS OF NUMBER-2-FUEL-OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-192444 71P. 1982

NUMBERS
0405 KINAKO,P.O.S. SHORT-TERM EFFECTS OF OIL POLLUTION ON SPECIES NUMBERS AND PRODUCTIVITY OF A SIMPLE TERRESTRIAL ECOSYSTEM $ UNIV PORT HARCOURT SCH BIOL SCI PORT HARCOURT ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 87-91 1981

NUMMEDAL,D
0608 NUMMEDAL,D., RUBY,C.H. SPILLED OIL RETENTION POTENTIAL BEAUFORT-SEA COAST OF ALASKA $ LOUISIANA STATE UNIV MED CTR DEPT GEOL NEW ORLEANS LA IN: NORWEGIAN INST TECHNOL PROC 79: THE FIFTH INTERNATIONAL CONF ON PORT AND ENG 3 P. 247-253 19

NUNES,P
0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

NUTRIENT
0398 KARYDIS,M. THE TOXICITY OF CRUDE-OIL FOR THE MARINE ALGA SKELETONEMA-COSTATUM (GREVILLE) CLEVE IN RELATION TO NUTRIENT LIMITATION $ DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE HYDROBIOLOGIA 85 (2) P. 137-143 1981

NUTRIENTS
0528 MURAKAMI,A., UMI,S. TREATMENT OF OIL SPILLS BY MICROORGANISMS AND ENCAPSULATED NUTRIENTS $ CULL ENG TOKYO UNIV JAPAN KANKYO KAGAKU TOKUBETSU KENKYU KENKYU HOKOKUSHO NO (889-R34) P. 141-4 1981

NUTRITION
0638 PAUL,R., DELCARTE,E., TILMAN,J., GODEFROID,L. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF STREET TREES $ DEP BIOL VEG THEOR APPL FAC SCI AGRON ETAT GEMBLOUX BELG TRIB CEBEDEAU 33 (445) P. 547-53 1980

NUWAYHID,M.A
0609 NUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

NYBLADE,C.F
0610 NYBLADE,C.F. THE STRAIT OF JUAN-DE-FUCA INTERTIDAL AND SUBTIDAL BENTHOS $ WASHINGTON UNIV FRIDAY HARBOR FRIDAY HARBOR LABS PB-80-142136 144P. 1979

0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

NYHART,J.D
0655 PSARAFTIS,H., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ MIT CAMBRIDGE MASS OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 407-414 1980

0656 PSARAFTIS,H.N., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-223109 99P. 1980

NYMAN,D.J
0845 BLACK,W.T., HOLLOWAY,D.M., LUSCHER,J., NYMAN,D.J., THOMAS,H.P. STUDY OF THE FACTORS AFFECTING THE SAFETY OF ARCTIC PIPELINES $ DEPARTMENT OF TRANSPORTATION WASHINGTON,D.C. PB82-149030 114P. 1981

O'NEAL,W.C
0960 O'NEAL,W.C., BIANCHINI,G.M., BLOCKER,K.E., HIPPLE,D.L., HOGAN,W.J. 500-M-EXP-3 SPILL TEST FACILITY FOR LIQUEFIED-GASEOUS-FUELS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 25P. 1981

O'NEIL,L.B
1094 O'NEIL,L.B., RAYNER,D.M. FIELD PERFORMANCE OF A LASER FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ REPRINT FROM APPLIED OPTICS 19 (6) P. 863-70 1980

O'NEIL,R.A

0218 DICK,R., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-40 1980

0621 O'NEIL,R.A., BUJA-BIJUNAS,L., RAYNER,D.M. FIELD PERFORMANCE OF A LASER-FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ DEP OF ENERGY MINES AND RESOUR OTTAWA APPL OPT 19 (6) P. 863-870 1980

1031 O'NEIL,R.A. A BIBLIOGRAPHY ON THE REMOTE-SENSING OF OIL POLLUTION $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-4 OTTAWA ONTARIO 1980

1052 O'NEIL,R.A., THOMSON,V., NEVILLE,R.A. REMOTE-SENSING OF OIL DURING THE KURDISTAN SPILL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-25 OTTAWA ONTARIO 1981

1127 O'NEIL,R.A., HUGE,F.E., BRISTOW,M.P.F. THE CURRENT STATUS OF AIRBORNE LASER FLUOROSENSING $ ENVIRONMENT CANADA ANN ARBOR MICHIGAN 1981

OBERHOLTZER,G.R

0611 OBERHOLTZER,G.R., ACUFF,J.T. TARGETING SPILL PREVENTION AND CONTROL TRAINING TO THE RESPONSIBLE INDIVIDUAL $ NATL SPILL CONTROL SCH CORPUS CHRISTI TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 201-203 1979

0612 OBERHOLTZER,G.R., ACUFF,J.T. NATIONAL SPILL CONTROL SCHOOL A PILOT PROGRAM IN ENVIRONMENTAL TRAINING FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 52P. 1980

OBRIEN,J.L

0222 DOHERTY,C.B., GAUVIN,C.A., MARCOLINI,R.A., OBRIEN,J.L. OPEN OCEAN POLLUTION RESPONSE THE COAST GUARD SYSTEM $ US COAST GUARD OFFSHORE TECHNOL CONF 12TH ANNU PROC 1 P. 245-253 1980

OCCURRENCE

0227 D'OZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

OCEAN

0012 ALVARADO,O.R., CHAFARIS,G., CHESTEK,J., CONRAD,J., PRIPPEL,G. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: TECHNICAL VOLUME EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 464P. 1980

0013 ALVARADO,O.R. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 68P. 1980

OCEAN

0018 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SOKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

0029 AKIEL,N.Z., BYUTNER,E.K., BORTKOVSKII,R.S., STROKINA,L.A. INFLUENCE OF OIL FILM POLLUTION OF THE OCEAN ON OXYGEN EXCHANGE WITH THE ATMOSPHERE $ SOV METEOROL HYDROL (2) P. 47-54 1979

0222 DOHERTY,C.B., GAUVIN,C.A., MARCOLINI,R.A., OBRIEN,J.L. OPEN OCEAN POLLUTION RESPONSE THE COAST GUARD SYSTEM $ US COAST GUARD OFFSHORE TECHNOL CONF 12TH ANNU PROC 1 P. 245-253 1980

0249 ESTES,J.E., WILSON,M., HAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

0304 GILLESPIE,J.W. OCEAN PETROLEUM POLLUTION $ CIVIL ENGINEERING 50 (3) 44P. 1980

0322 GUPTA,R.S., KUREISHY,T.W. PRESENT STATE OF OIL POLLUTION IN THE NORTHERN INDIAN OCEAN $ NATL INST OCEANOG DONA PAULA GOA DAMAN AND DIU INDIA MARINE POLLUTION BULLETIN 12 (9) P. 295-301 1981

0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.H., LANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-1P 1980

0540 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. REPORT TO THE CONGRESS ON OCEAN POLLUTION AND OFFSHORE DEVELOPMENT OCTOBER 1977 THROUGH SEPTEMBER 1978 $ PB-81-118333 94P. 1980

0564 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OCEAN LAW 1977-MAY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-807349 108P. 1981

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

0666 RENOUX,A., BOTTOM,J.F., JOUAN,M. EFFECT OF ACCIDENTAL POLLUTION OF THE OCEAN ON MARINE AEROSOL $ FAC SCI CRETEIL UNIV PARIS VAL DE MARNE CRETEIL FRANCE J ENVIRON SCI HEALTH PART A VOL A16 (4) P. 397-404 1981

0874 CROSWELL,W.F., BLUME,H.J.C., JOHNSON,J.W. MICROWAVE REMOTE-SENSING MEASUREMENTS OF OIL POLLUTION OF THE OCEAN $ NASA LANGLEY RES CENT HAMPTON VA DIG - INT GEOSCI AND REMOTE SENS SYMP (IGARSS'81) 2 P. 1246-1251 1981

OCEAN

0887 FOGELQVIST,E., LAGERKVIST,S., LINDROTH,P. PETROLEUM HYDROCARBONS IN THE ARCTIC OCEAN SURFACE WATER $ GOTHENBURG UNIV DEPT ANALYT AND MARINE CHEM GOTHENBURG SWEDEN MARINE POLLUTION BULLETIN 13 (6) P. 211-213 1982

0903 GRISWOLD,C.A. THE BARGE OCEAN 250 GASOLINE SPILL $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-176488 38P. 1981

0971 RAWSON,R.F., LISKOW,C.L. RADAR REFLECTIVITY MEASUREMENTS OF OCEAN SURFACE WITH AND WITHOUT A SURFACE COAT OF OIL $ ENVIRON RES INST OF MICH ANN ARBOR USA DIG - INT GEOSCI AND REMOTE SENS SUMP (IGARSS'81) 2 P. 1268-1273 1981

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

1009 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASE I - LITERATURE REVIEW AND FEASIBILITY STUDY $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-81-3 OTTAWA ONTARIO 1981

1042 CENTRE FOR COLD OCEAN RESOURCES AN OILSPILL IN PACK ICE $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-15 OTTAWA ONTARIO 1981

OCEANOGRAPHIC

1090 LEA,B.N. OCEANOGRAPHIC STUDIES IN SUPPORT OF AN OFFSHORE DISPERSANT TRIAL $ DEBROCKY SEATECH (NFLD) LTD NEWFOUNDLAND CANADA 1982

ODOR

0969 RADUSKI,E. REMOVAL OF HYDROCARBON TASTE AND ODOR FROM POTABLE WATER BY REPLACEABLE CARBON CONTAINING FILTER CARTRIDGES $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A107-878/1 21P. 1981

OFFEN,H.W

0613 OFFEN,H.W., EHRENSPECK,H., MATUCK,C., HANNAN,D., STEFANI,R. OIL POLLUTION ABSTRACTS VOLUME 7 NUMBER 1 (JANUARY 1980-JUNE 1980) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-140493 355P. 1981

OFFSHORE

0039 AUNE,A.B., VLIETSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS $ PUB: NORTH HOLLAND PUBL CO JAN VAN GALENSTRAAT AMSTERDAM NETH 441P. 1980

0058 BECK,D.A., MOELLER,P.J. IMPLEMENTATION OF THE OFFSHORE OIL POLLUTION FUND $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 11-15 1979

0075 BERTRAND,A.R.V. MAJOR OFFSHORE OIL SPILL ACCIDENTS AND THE TANKER ACCIDENT DATA BANK (1955-1979) OF THE INSTITUT FRANCAIS DU PETROLE $ INST FR DU PET REV INST FR PET 24 (3) P. 483-541 1979

OFFSHORE

0119 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA EXECUTIVE SUMMARY $ PB-82-106352 45P. 1980

0120 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA TECHNICAL ANALYSIS $ PB-82-106360 675P. 1980

0121 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA SUPPLEMENT $ PB-82-106378 90P. 1980

0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

0223 DOMERACKI,D.D., GUNDLACH,E.R., THEBEAU,L.C. COASTAL PLANNING FOR OFFSHORE PETROLEUM DEVELOPMENT $ KES PLANNING INST INC COLUMBIA SC AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (9) 1661P. 1981

0227 D'OZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

0295 GEOLOGICAL SURVEY RESTON VA SAFETY AND OFFSHORE OIL $ PB-82-128042 350P. 1981

0297 GERACI,J.R., STAUBIN,D.J. OFFSHORE PETROLEUM RESOURCE DEVELOPMENT AND MARINE MAMMALS A REVIEW AND RESEARCH RECOMMENDATIONS $ UNIV GUELPH ONTARIO VET COLL DEPT PATHOL GUELPH ONT CANADA MARINE FISHERIES REVIEW 42 (11) P. 1-12 1980

0327 HABERCUM,G.E. JR. OFFSHORE PIPELINES (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-805328 124P. 1980

0340 HAUSER,J.N., BAIRD,R. SYSTEM TO PREDICT OFFSHORE DRILLING HAZARDS $ ODOM OFFSHORE SURV INC BATON ROUGE LA PET ENG INT 51 (8) P. 46, 50, 52, 56 1979

0382 JENKINS,R.H. OILY WATER DISCHARGES FROM OFFSHORE OIL DEVELOPMENTS $ BP TRADING LTD CTR ENVIRONM CONTROL SUNBURY ENGL IN: UPTON,C.R. PROCEEDINGS OF THE NINTH ENVIRONMENTAL WORKSHOP ON OFFSHORE HYDROCARBON DEVELOPMENT P. 354-371 1980

OFFSHORE

0444 LEHR,W.J., BELEN,M.S., CEKIRGE,H.M. SIMULATED OIL SPILLS AT 2 OFFSHORE FIELDS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV RES INST DIV WATER AND ENVIRON DHAHRAN SAUDI ARABIA MARINE POLLUTION BULLETIN 12 (11) P. 371-374 1981

0451 LICHTE,H.W. SKIMMING BARRIER PERFORMANCE EVALUATION: OFFSHORE VERSION AND HARBOR VERSION $ MASON AND HANGER-SILAS MASON CO LEONARDO NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 489-492 1979

0517 MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY EPILOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 421-432 1981

0518 MIDDLEDITCH,B.S., GALLAWAY,B.J. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION THE BUCCANEER GAS AND OIL FIELD STUDY PROLOGUE $ UNIV HOUSTON DEPT BIOPHYS SCI HOUSTON TX IN: MIDDLEDITCH,B.S. ENVIRONMENTAL EFFECTS OF OFFSHORE OIL PRODUCTION 14 P. 1-14 1981

0540 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. REPORT TO THE CONGRESS ON OCEAN POLLUTION AND OFFSHORE DEVELOPMENT OCTOBER 1977 THROUGH SEPTEMBER 1978 $ PB-81-118333 94P. 1980

0561 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PIPELINES 1964-FEBRUARY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-804700 208P. 1981

0649 PULEY,J.P. SELECTIVE OIL SPILL COMBAT PLANNING FOR OFFSHORE EXPLORATION AND PRODUCTION OPERATIONS IN THE NORTH SEA $ SHELL INT PET THE HAGUE NETH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 641-647 1979

0650 PULEY,J.P., CALLAGHAN,D. SELECTIVE OIL SPILL COMBAT PLANNING FOR OFFSHORE OPERATIONS $ SHELL INT PETR MIJ THE HAGUE NETHERLANDS IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 433-447 1981

0681 ROSS,S.L. OIL SPILL COUNTERMEASURES IN OFFSHORE PRODUCTION $ ROSS ENVIRONM RES LTD OTTAWA ONTARIO IN: UPTON,L.R. PROCEEDINGS OF THE NINTH ENVIRONMENTAL WORKSHOP ON OFFSHORE HYDROCARBON DEVELOPMENT P. 372-389 1980

0702 SCHULTZ,L.A., MARSH,G.D. OFFSHORE AND COASTAL ALASKAN OIL SPILL SCENARIOS $ ARCTEC INC COLUMBIA MD ASME PAP N 80-PET-40 FOR MEET 13P. 1980

0737 SNAVELY,E.S. JR., YARBROUGH,H.F. OFFSHORE OILY WATER SEPARATION $ MOBIL RES AND DEV CORP USA SOC PET ENG AIME PAP SPE PROC MIDDLE EAST TECH CONF MANAMA BAHRAIN P. 31-36 1981

0815 WILLIAMS,D.C., HUM,K.B. ONSHORE IMPACTS OF OFFSHORE OIL: A USER'S GUIDE TO ASSESSMENT METHODS $ DEPARTMENT OF THE INTERIOR WASHINGTON, D.C. PB-82-103474 72P. 1979

OFFSHORE

0851 BOEHM,P.D., FLEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-I BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

0898 GLASS,A.W., HORTON,B.R. "SLIKTRAK" COMPUTER SIMULATION OF SURFACE POLLUTION PROBLEMS ARISING FROM OFFSHORE OIL SPILLS $ SHELL INT PET MAATSCH THE HAGUE NETH PROC OF THE WORLD PET CONGR 10TH 5 P. 3-12 1980

0936 MONDHEIM,O., TOERHAUG,M., HELGAKER,P. OFFSHORE BLOWOUT CONTROL $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING OSLO (NORWAY) 203P. 1981

0948 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PIPELINES 1964-APRIL 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-808205 239P. 1982

0955 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PLATFORMS: TECHNOLOGY REGULATIONS AND ENVIRONMENTAL EFFECTS 1977-JUNE 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-868381 173P. 1982

0977 SHARP,J.M., APPAN,S.G. THE CUMULATIVE ECOLOGICAL EFFECTS OF NORMAL OFFSHORE PETROLEUM OPERATIONS CONTRASTED WITH THOSE RESULTING FROM CONTINENTAL SHELF OIL SPILLS $ GULF UNIV RES CONSORTIUM HOUSTON TX PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 309-322 1982

1066 MYERS,A. CURRENT BIBLIOGRAPHY OF OFFSHORE TECHNOLOGY AND OFFSHORE LITERATURE CLASSIFICATION $ ASR MARKETING BERKHAMSTED HERTZ 1981

1067 BRASSARD,C., HARRISON,P., KWAMENA,F.A., WRIGHT,D. ONSHORE IMPACTS OF OFFSHORE HYDROCARBON DEVELOPMENT AN ANNOTATED BIBLIOGRAPHY $ ENVIRONMENT CANADA OTTAWA ONTARIO 1981

1070 WESTGAARD,R.H. WELL CONTROL IN CASE OF OFFSHORE BLOWOUT - REPORT #1 AND WORK DOCUMENT #13 $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING NORWAY 1981

1075 ANONYMOUS PROCEEDINGS OF THE TWELFTH ANNUAL OFFSHORE TECHNOLOGY CONFERENCE - VOLUMES 1-4 $ OFFSHORE TECHNOLOGY CONFERENCE COMMITTEE HOUSTON TEXAS 1980

1090 LEA,B.N. OCEANOGRAPHIC STUDIES IN SUPPORT OF AN OFFSHORE DISPERSANT TRIAL $ DEBROCKY SEATECH (NFLD) LTD NEWFOUNDLAND CANADA 1982

1097 CAIRNS,W.J., ROGERS,P.M. ONSHORE IMPACTS OF OFFSHORE OIL $ APPLIED SCIENCE PUBLISHERS LTD 1981

1101 ANONYMOUS SAFETY AND OFFSHORE OIL $ NATIONAL ACADEMY PRESS WASHINGTON,D.C. 1981

OFFSHORE
1107 ANONYMOUS WORLD WIDE DIRECTORY OFFSHORE CONTRACTORS AND EQUIPMENT $ THE PETROLEUM PUBLISHING CO TULSA OKLAHOMA 1979

1123 ANONYMOUS EXISTING AND PROPOSED PROGRAMS AND MEASURES FOR THE PREVENTION OF DISCHARGES OF OIL OR HAZARDOUS POLLUTING SUBSTANCES FROM ONSHORE AND OFFSHORE FACILITIES $ MINISTRY OF THE ENVIRONMENT OTTAWA ONTARIO 1981

1134 LANGFELDT,J.M., WOLD,M. FULL SCALE TESTS WITH OIL RECOVERY SYSTEMS OFFSHORE $ OIL POLLUTION CONTROL - R AND D PROGRAM OSLO NORWAY 1981

OFFSPRING
0789 VASHCHENKO,M.A. THE EFFECT OF WATER-SOLUBLE HYDROCARBON FRACTIONS OF DIESEL-FUEL ON THE DEVELOPMENT OF GAMETES AND QUALITY OF THE OFFSPRING IN THE SEA-URCHIN STRONGYLOCENTROTUS-NUDUS $ ACAD SCI USSR BIOLOGIYA MORYA-MARINE BIOLOGY (4) 68P. 1980

OGATA,M
0959 OGATA,M., FUJISAWA,K., MIYAKE,Y. TRANSFER OF ORGANIC SULFUR COMPOUNDS IN PETROLEUM FROM CRUDE OIL SUSPENSION TO THE MUSSEL $ MED SCH OKAYAMA UNIV OKAYAMA JAPAN IGAKU TO SEIBUTSUGAKU 103 (3) P. 243-7 1981

OGAWA,I
0615 OGAWA,I. THE IDENTIFICATION METHOD FOR LUBRICATING OIL ADDITIVES IN BILGE BY THE INFRARED-SPECTROSCOPY $ KAIJO HOAN UNIV JAPAN NIPPON HAKUYO KIKAN GAKKAISHI 16 (2) P. 115-20 1981

OGINO,K
0616 OGINO,K., ONISHI,M. INTERFACIAL ACTION OF NATURAL SURFACTANTS IN OIL-WATER SYSTEMS $ FAC SCI AND TECHNOL NODA CHIBA JAPAN JOURNAL OF COLLOID AND INTERFACE SCIENCE 83 (1) P. 18-25 1981

OGLESBY,J.L
0760 TAGATZ,M.E., IVEY,J.M., OGLESBY,J.L. TOXICITY OF DRILLING-MUD BIOCIDES TO DEVELOPING ESTUARINE MACROBENTHIC COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY GULF BREEZE FLA PB-31-106031 10P. 1980

OHMSETT
0272 BUSTEK,D.M., SCHWARTZ,S.H., SMITH,G.F. A STATISTICAL EVALUATION OF OHMSETT TESTING $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-226128 39P. 1981

0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

0734 SMITH,G.W., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-163743 365P. 1981

OHMSETT

1103 SMITH,G.F., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1981

1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174432 1980

1120 BUIST,I. FIRE-PROOF BOOM DEVELOPMENT OHMSETT TRIALS $ DOME PETROLEUM LIMITED CALGARY ALBERTA 1981

1131 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

OIL-BOOM

0184 COHEN,S.H., LINDENMUTH,W.T., FARLOW,J.S. DEVELOPMENT AND TESTS OF AN AIR-JET OIL-BOOM $ HYDRONAUT INC LAUREL MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 483-487 1979

OIL-DISPERSANT

0710 SCOTT,B.F., MACY,E., SHERRY,J.P., DUTKA,B.J., GLUSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER $ NAIL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

OIL-FIELDS

0259 FERGUSON,J.D. FORMATION OF DIAGENETIC ALTERATION ZONES BY LEAKING RESERVOIR HYDROCARBONS OVER 3 OIL-FIELDS IN OKLAHOMA $ GULF OIL EXPLORAT AND PROD CO HOUSTON TX AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (5) 924P. 1981

OIL-IN-WATER

0214 DEPRAETERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

0352 HILTRABRAND,R.R. CONTINUOUS OIL-IN-WATER MEASUREMENTS BY FLUOROMETRY $ US COAST GUARD RES AND DEV CENT GROTON CONN OCEANS (NEW YORK) ANNU COMB CONF OF IEEE AND MAR TECHNOL SOC 1979

0698 SCHIEGG,H.O. FIELD INFILTRATION AS A METHOD FOR THE DISPOSAL OF OIL-IN-WATER EMULSIONS FROM THE RESTORATION OF OIL POLLUTED AQUIFERS $ LAB HYDRAULICS HYDROL GLACIOL SWISS FED INST TECHNOL ZURICH SWITZ WATER RES 14 (P) P. 1011-16 1980

0721 SILVUS,H.S. JR., NEWMAN,F.M., FRAZAR,J.M. DEVELOPMENT OF OIL-IN-WATER MONITOR PHASE II $ ENVIRONMENTAL MONITORING AND SUPPORT LAB CINCINNATI OHIO PB-80-226251 47P. 1980

OIL-SHALE

0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

0219 DICKSON,J.G., ADAMS,V.D. EVALUATION OF MUTAGENICITY TESTING OF EXTRACTS FROM PROCESSED OIL-SHALE $ OFFICE OF WATER RESEARCH AND TECHNOLOGY WASHINGTON, D.C. PB-80-203458 52P. 1980

0273 FOX,J.P. WATER RELATED IMPACTS OF IN-SITU OIL-SHALE PROCESSING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 350P. 1980

0277 FREY,J.H. ENVIRONMENTAL IMPACTS OF OIL-SHALE WASTE DISPOSAL JANUARY 1976-JUNE 1980 (CITATIONS FROM THE ENERGY DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-852527 82P. 1980

0360 HOLLAND,L.M., SPALL,W.D., GARCIA,L.L., ROM,W.N. (ED), AKCHER,V.E. (ED) INHALATION TOXICOLOGY OF OIL-SHALE RELATED MATERIALS $ LOS ALAMOS SCI LAB UNIV CALIFORNIA LOS ALAMOS NM HEALTH IMPLIC NEW ENERGY TECHNOL (PARK CITY ENVIRON HEALTH CONF) P. 515-26 1979

0439 LEENHEER,J.A., STUBER,H.A. MIGRATION THROUGH SOIL OF ORGANIC SOLUTES IN AN OIL-SHALE PROCESS WATER $ US GEOL SURVEY DENVER FED CTR DENVER CO ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (12) P. 1467-1475 1981

0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

0575 ROGERS,J.E., LI,S.W. MICROBIOLOGICAL ASPECTS OF THE GROUND DISPOSAL OF OIL-SHALE WASTES $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 7P. 1978

0720 SIERRA,R.A., SAADATI,A. PHYSICAL-CHEMICAL TREATMENT OF OIL-SHALE RETORT WATER $ UNIV OF ARIZ TUCSON USA PROC OF THE SPEC CONF - WATER FORUM '81 2 P. 902-909 1981

1003 LEENHEER,J.A., STUBER,H.A., NOYES,T.I. CHEMICAL AND PHYSICAL INTERACTIONS OF AN IN SITU OIL-SHALE PROCESS WATER WITH A SURFACE SOIL $ US GEOL SURV DENVER COLO OIL SHALE SYMP PROC 14TH GOLDEN COLO P. 357-375 1981

OIL-SHALES

0659 RAJESHWAR,K., DUBOW,J., THAPAR,R. RADIO-FREQUENCY ELECTRICAL PROPERTIES OF GREEN RIVER OIL-SHALES $ COLORADO STATE UNIV DEPT ELECT ENGN FT COLLINS CO CANADIAN JOURNAL OF EARTH SCIENCES 17 (9) P. 1315-1321 1980

OIL-SOLUBLE

0731 SMIRNOVA,A.V., PLUTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

OIL-SPILLS

0085 BLACKBOURN,S.R. TEXAS 1979 EXPERIENCE WITH MARCO FILTERBELT SKIMMERS ON IXTOC-1 AND BURMAH-AGATE CRUDE OIL-SPILLS $ MARCO SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S P. 398-406 1980

0106 BRESLIN,M.K. USING COHERENT WATER-JETS TO CONTROL OIL-SPILLS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-232720 108P. 1981

OIL-WATER

0187 COLMAN,D.A., THEW,M.T., CORNEY,D.R. HYDROCYCLONES FOR OIL-WATER SEPARATION $ UNIV SOUTHAMPTON SOUTHAMPTON HAMPSHIRE ENGLAND IN: PRIESTLY,G., STEPHENS,H.S. PAPERS PRESENTED AT AN INTERNATIONAL CONF ON HYDROCYCLONES P. 143-165 1980

0418 KUZNETSOV,A., GRITSKOV,V.S., KHOMYAKOV,V.M., KUDINOV,Y. DISPERSION SYSTEM FOR PREPARING OIL-WATER EMULSIONS $ METALLURGIST 23 (7-8) P. 554-556 1979

0616 OGINO,K., ONISHI,M. INTERFACIAL ACTION OF NATURAL SURFACTANTS IN OIL-WATER SYSTEMS $ FAC SCI AND TECHNOL NODA CHIBA JAPAN JOURNAL OF COLLOID AND INTERFACE SCIENCE 83 (1) P. 18-25 1981

0653 POUCHELON,A., MEUNIER,J., LANGEVIN,D., CHATENAY,D., CAZABAT,A.M. LOW INTERFACIAL-TENSIONS IN 3 PHASE SYSTEMS OBTAINED WITH OIL-WATER- SURFACTANT MIXTURES $ ECOLE NORM SUPER SPECT HERTZIENNE LAB PARIS FRANCE CHEMICAL PHYSICS LETTERS 76 (2) P. 277-281 1980

0686 RUCKENSTEIN,E., KRISHNAN,R. EFFECT OF ELECTROLYTES AND MIXTURES OF SURFACTANTS ON THE OIL-WATER INTERFACIAL-TENSION AND THEIR ROLE IN FORMATION OF MICRO-EMULSIONS $ SUNY BUFFALO FAC ENGN AND APPL SCI BUFFALO NY JOURNAL OF COLLOID AND INTERFACE SCIENCE 76 (1) P. 201-211 1980

0942 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL-WATER SEPARATORS 1973-NOVEMBER 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB82-805680 189P. 1982

1059 MACKAY,D. OIL-WATER INTERFACIAL-TENSIONS IN CHEMICAL DISPERSANT SYSTEMS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-32 OTTAWA ONTARIO 1982

OIL/DEBRIS

0449 LICHTE,H.W. PERFORMANCE TESTING OF THE SOVIET OIL/DEBRIS SKIMMER $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-244790 42P. 1981

OIL/WATER
0758 SYLVESTER,N.D., BYESEDA,J.J. OIL/WATER SEPARATION BY INDUCED-AIR FLOTATION $ UNIV OF TULSA OKLA SPEJ SOC PET ENG J 20 (6) P. 579-590 1980

OILBOOM/SKIMMER
0270 FULSOM,B.A. DEVELOPMENT OF A HIGH CURRENT OILBOOM/SKIMMER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OHIO PB-80-219660 124P. 1980

OILED
0159 LANEVARI,G.P. RESTORATION OF OILED SHORELINES BY THE PROPER USE OF CHEMICAL DISPERSANTS $ EXXON RES AND ENG CO FLORHAM PARK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 443-446 1979

0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

OILING
0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

0840 BEDINGER,C.A., NOLTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-1 BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV $ HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

OILSPILL
0920 LANPEAR,K.J., AMSTUTZ,D.E. ENVIRONMENTAL STUDIES FOR OILSPILL TRAJECTORY MODELING IN THE SOUTH-EASTERN U.S. OUTER CONTINENTAL SHELF LEASING AREA $ US GEOL SURV USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 487-495 1981

1042 CENTRE FOR COLD OCEAN RESOURCES AN OILSPILL IN PACK ICE $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-15 OTTAWA ONTARIO 1981

OILWELL
0186 COLLINS,J.W. INFORMATION FROM OIL AND GAS INDUSTRY ESSENTIAL TO PROTECT COASTAL ENVIRONMENT FROM OILWELL SPILLS $ CITIES SERV CO CRANBURY NJ JOURNAL OF PETROLEUM TECHNOLOGY 33 (6) P. 1005-1007 1981

OKLAHOMA
0259 FERGUSON,J.D. FORMATION OF DIAGENETIC ALTERATION ZONES BY LEAKING RESERVOIR HYDROCARBONS OVER 3 OIL-FIELDS IN OKLAHOMA $ GULF OIL EXPLORAT AND PROD CO HOUSTON TX AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (5) 924P. 1981

OLESZKO-SZUIS,S
0837 ATEMA,J., KARNOFSKY,E.B., OLESZKO-SZUIS,S., BRYANT,B. LOBSTER BEHAVIOR AND CHEMORECEPTION: SUBLETHAL EFFECTS OF NUMBER-2-FUEL-OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-192444 71P. 1982

OLGEIRSON,E.R
0617 OLGEIRSON,E.R., MARTIN,R.R. ECOLOGICAL INVESTIGATIONS: VEGETATION STUDIES PRELIMINARY FINDINGS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 56P. 1978

OLIGOCHAETE
0302 GIERE,O. THE IMPACT OF CRUDE-OIL AND OIL DISPERSANTS ON THE MARINE OLIGOCHAETE MARIONINA-SUBTERRANEA $ UNIV HAMBURG INST ZOOL HAMBURG GER CAHIERS DE BIOLOGIE MARINE 21 (1) P. 51-60 1980

OLLA,B
0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

OLLA,B.L
0618 OLLA,B.L., PEARSON,W.H., SUGARMAN,P.C., WOODRUFF,D.L., BLAYLOCK,J.W. THE EFFECTS OF PETROLEUM HYDROCARBONS ON CHEMORECEPTION AND BEHAVIOR IN THE DUNGENESS-CRAB "CANCER-MAGISTER" $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-82-116716 33P. 1981

0640 PEARSON,W.H., MILLER,S.E., BLAYLOCK,J.W., OLLA,B.L. DETECTION OF THE WATER SOLUBLE FRACTION OF CRUDE-OIL BY THE BLUE-CRAB CALLINECTES-SAPIDUS $ BATTELLE PAC NORTHWEST LAB MAR RES LAB SEQUIM WASH MAR ENVIRON RES 5 (1) P. 3-12 1981

OLSEN,K
0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-132429 63P. 1980

0727 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME III BACTERIOLOGY OF A GULF OF MEXICO GAS AND OIL FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192189 54P. 1980

OMI,S
0528 MURAKAMI,A., OMI,S. TREATMENT OF OIL SPILLS BY MICROORGANISMS AND ENCAPSULATED NUTRIENTS $ COLL ENG TOKYO UNIV JAPAN KANKYO KAGAKU TOKUBETSU KENKYU KENKYU HOKOKUSHO NO (B89-R34) P. 141-4 1981

OMOHUNDRO,J.I
0619 OMOHUNDRO,J.I. OIL SPILLS: A PUBLIC OFFICIAL'S HANDBOOK $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-184351 22P. 1980

ONUMUNDRU,J.T

0620 ONUMUNDRU,J.T. OIL SPILLS: A COASTAL RESIDENT'S HANDBOOK $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-183585 16P. 1980

ONCORHYN-CHUS-KISUTCH

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

ONCORHYNCHUS-KISUTCH

0890 FOLMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HUDGINS,M.D. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 458-462 1981

ONEIL,R

0634 PARASHAR,S., STAPLETON,G., MORSFOLD,R., ONEIL,R., GRAY,L. ASSESSMENT OF SAR FOR OIL POLLUTION SURVEILLANCE IN THE ICE ENVIRONMENT $ REMOTEC APPLICAT INC ST JOHNS NEWFOUNDLAND IN: NORWEGIAN INST TECHNOL PROC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 3 P. 99-123 1979

ONEILL,J.M

0070 BENVILLE,P.E., YOCUM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

ONEILL,T

0622 ONEILL,T. OIL SPILL CONTINGENCY PLANS AND POLICIES IN NORWAY AND THE UNITED-KINGDOM $ YALE UNIV SCH FORESTRY AND ENVIRONM STUDIES NEW HAVEN CT COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 289-317 1980

ONISHI,M

0616 OGINO,K., ONISHI,M. INTERFACIAL ACTION OF NATURAL SURFACTANTS IN OIL-WATER SYSTEMS $ FAC SCI AND TECHNOL NODA CHIBA JAPAN JOURNAL OF COLLOID AND INTERFACE SCIENCE 83 (1) P. 18-25 1981

ONSHORE

0815 WILLIAMS,D.C., HOM,K.B. ONSHORE IMPACTS OF OFFSHORE OIL: A USER'S GUIDE TO ASSESSMENT METHODS $ DEPARTMENT OF THE INTERIOR WASHINGTON, D.C. PB-82-103474 72P. 1979

0923 LYSYJ,I. TREATMENT OF OILY WASTEWATERS FROM ONSHORE OPERATIONS $ ROCKWELL INT CORP CTR ENVIRONM MONITORING SERV NEWBURY PK CA JOURNAL WATER POLLUTION CONTROL FEDERATION 54 (3) P. 309-315 1982

1067 BRASSARD,C., HARRISON,P., KWAMENA,F.A., WRIGHT,D. ONSHORE IMPACTS OF OFFSHORE HYDROCARBON DEVELOPMENT AN ANNOTATED BIBLIOGRAPHY $ ENVIRONMENT CANADA OTTAWA ONTARIO 1981

ONSHORE
1097 CAIRNS,W.J., ROGERS,P.M. ONSHORE IMPACTS OF OFFSHORE OIL & APPLIED SCIENCE PUBLISHERS LTD 1981

1123 ANONYMOUS EXISTING AND PROPOSED PROGRAMS AND MEASURES FOR THE PREVENTION OF DISCHARGES OF OIL OR HAZARDOUS POLLUTING SUBSTANCES FROM ONSHORE AND OFFSHORE FACILITIES & MINISTRY OF THE ENVIRONMENT OTTAWA ONTARIO 1981

ONTARIO
0875 CULLEY,J.L.B., DOW,R.K., PRESANT,E.W., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION & AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

OPERATIONAL
0342 HAYES,K.M. OPERATIONAL USE OF REMOTE-SENSING DURING THE CAMPECHE-BAY OIL WELL BLOWOUT & US COAST GUARD OCEANOGR UNIT WASHINGTON, D.C. PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1187-1196 1980

OPERATOR
0264 FLEMING,K.N., SELADY,F.A., HAWKINS,G.W. TREATMENT OF OPERATOR ACTIONS IN THE HIGH RISK ASSESSMENT STUDY & DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1979

ORDZIE,C.J
0623 ORDZIE,C.J., GARGIULO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES & UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

ORGANIC
0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS & UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

0439 LEENHEER,J.A., STUBER,H.A. MIGRATION THROUGH SOIL OF ORGANIC SOLUTES IN AN OIL-SHALE PROCESS WATER & US GEOL SURVEY DENVER FED CTR DENVER CO ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (12) P. 1467-1475 1981

0494 MARCUS,M.D., BERGMAN,H.L., STILLER,J.A., BROWN,S.K., MULHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS & DEPARTMENT OF ENERGY WASHINGTON, D.C. P3-80-177140 366P. 1980

0959 OGATA,M., FUJISAWA,K., MIYAKE,Y. TRANSFER OF ORGANIC SULFUR COMPOUNDS IN PETROLEUM FROM CRUDE OIL SUSPENSION TO THE MUSSEL & MED SCH OKAYAMA UNIV OKAYAMA JAPAN IGAKU TO SEIBUTSUGAKU 103 (3) P. 243-7 1981

ORGANIC-CARBON
0096 BUTELLO,A.V., CASTRO,S.A. BASE-LINE STUDIES FOR HYDROCARBONS AND ORGANIC-CARBON ISOTOPE RATIOS OF RECENT SEDIMENTS IN THE BANK OF CAMPECHE BEFORE THE IXTOC-1 OIL-SPILL $ NATL AUTONOMOUS UNIV MEXICO CTR CIENCIAS MAR AND LIMNOL MEXICO CITY ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 35P. 1980

ORGANIC-CHEMICAL
0742 SPATZ,D.D. MULTI-YEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMONICS INC HOPKINS MN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 10PP. 1980

0743 SPATZ,D.D. MULTIYEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMON INC IND RD HOPKINS MN ACS SYMPOSIUM SERIES (154) P. 221-236 1981

ORGANICS
0224 DUNTY,E.J., BROWN,J.W., STONE,F.W., LAKE,J., LASEIEK,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

ORGANISATION
0907 HAYES,T.M. MARITIMES REGION OIL SPILL ALERTING AND RESPONSE ORGANISATION $ CAN COAST GUARD DARTMOUTH NS ENVIRON INT 5 (3) P. 149-152 1981

ORGANISMS
0070 BENVILLE,P.E., YOCUM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

0154 BURNS,K.A., SMITH,J.L. BIOLOGICAL MONITORING OF AMBIENT WATER QUALITY THE CASE FOR USING BIVALVES AS SENTINEL ORGANISMS FOR MONITORING PETROLEUM POLLUTION IN COASTAL WATERS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ESTUARINE COASTAL AND SHELF SCIENCE 13 (4) P. 433-443 1981

0300 GIDDINGS,J.M., PARKHURST,B.R., GEHRS,C.W., MILLEMANN,R.E. TOXICITY OF A COAL LIQUEFACTION PRODUCT TO AQUATIC ORGANISMS $ OAK RIDGE NATL LAB TENN BULL ENVIRON CONTAM TOXICOL 25 (1) P. 1-6 1980

0361 HOLLISTER,T.A., WARD,G.S., PARRISH,P.R. ACUTE TOXICITY OF A #6-FUEL-OIL TO MARINE ORGANISMS $ EG AND G BIONOM MARINE RES LAB PENSACOLA FL BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 24 (5) P. 656-661 1980

0370 HYLAND,J.L., SCHNEIDER,E.D. PETROLEUM HYDROCARBONS AND THEIR EFFECTS ON MARINE ORGANISMS POPULATIONS COMMUNITIES AND ECOSYSTEMS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-80-195423 43P. 1979

ORGANISMS
0388 JOHNSTON,C.S., BLANCHARD,J.R. HYDROCARBONS IN SEDIMENTS AND ASSOCIATED ORGANISMS $ INST OFFSHORE ENG HERIOT-WATT UNIV EDINBURGH SCOT ENERGY BALANCE PAP ANNU MEET BR ASSOC ADV SCI P. 20-36 1979

0715 SHAW,D.G., CLEMENT,L.E., MCINTOSH,D.J. SOME EFFECTS OF PETROLEUM ON NEARSHORE ALASKAN MARINE ORGANISMS $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-81-159147 93P. 1981

0751 STRAUGHAN,D. DISTRIBUTION OF TAR AND RELATIONSHIP TO CHANGES IN INTERTIDAL ORGANISMS ON SANDY BEACHES IN SOUTHERN CALIFORNIA $ UNIV OF SOUTH CALIF LOS ANGELES PROC - OIL SPILL CONF LOS ANGELES CALIF P. 591-601 1979

0979 SINDERMANN,C.J. IMPLICATIONS OF OIL POLLUTION IN PRODUCTION OF DISEASE IN MARINE ORGANISMS $ NOAA NATL MARINE FISHERIES SERV SANDY HOOK NJ PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 385-399 1982

ORGANOPHILIC-PEAT
0061 MELKEVICH,P.I., KOVZUN,A.A., SOBOL,M.I., CHRISTOVA,L.R. ORGANOPHILIC-PEAT SORBENT FOR REMOVING OILS AND PETROLEUM PRODUCTS FROM WASTEWATERS $ ACAD SCI BESSR INST PEAT MINSK BESSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (11) P. 1796-1799 1980

ORIGIN
0005 AHEL,M., PICER,M. AN OIL SPILL AT SEA ORIGIN AND FATE $ CENT ISTRAZIVANJE MORA INST "RUDER BOSKOVIC" ZAGREB-ROVINJ YUGOSLAVIA ACTA ADRIAT 21 (1) P. 237-48 1980

ORMOND,R.F.G
0961 ORMOND,R.F.G., CALDWELL,S. THE EFFECT OF OIL POLLUTION ON THE REPRODUCTION AND FEEDING BEHAVIOR OF THE SEA-ANEMONE ACTINIA-EQUINA $ UNIV YORK DEPT BIOL YORK N YORKSHIRE ENGLAND MARINE POLLUTION BULLETIN 13 (4) P. 118-122 1982

ORREN,M.J
0278 FRICKE,A.H., HENNIG,H., ORREN,M.J. RELATIONSHIP BETWEEN OIL POLLUTION AND PSAMMOLITTORAL METOFAUNA DENSITY OF 2 SOUTH-AFRICAN BEACHES $ UNIV CAPE TOWN DEPT OF OCEANOG NATL RES INST OCEANOL RONDEBOSCH SOUTH AFRICA MARINE ENVIRONMENTAL RESEARCH 5 (1) P. 59-77 1981

OSAMOR,C.A
0624 OSAMOR,C.A. OIL SLICK DISPERSAL MECHANICS: SPREADING DISSOLUTION AND CHEMICAL DISPERSION $ RUTGERS UNIV THE STATE UNIV OF NEW JERSEY NEW BRUNSWICK NJ 442P. 1981

0625 OSAMOR,C.A., AHLERT,R.C. OIL SLICK DISPERSAL MECHANICS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-105560 238P. 1981

OSCAR
1010 WESTERN CANADA HYDRAULIC LABORATORIES LTD INVESTIGATION OF THE OPERATING PARAMETERS OF THE OIL SPILL CONTAINMENT AND RECOVERY (OSCAR) VESSEL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-5 OTTAWA ONTARIO 1981

OSHIDA,P.S
0973 REISH,D.J., OSHIDA,P.S., WILKES,F.G., MEARNS,A.J., RUSI,S.S. MARINE ESTUARINE POLLUTION $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB82-126174 28P. 1981

OSTERYOUNG,K
0233 EHRENSPECK,H., OSTERYOUNG,K., BONVOULOIR,D. OIL POLLUTION ABSTRACTS VOLUME 6 NUMBER 4 (OCTOBER 1979-DECEMBER 1979) $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-191067 217P. 1980

OTTER
0047 BAKER,J.R., JONES,A.M., JONES,T.P., WATSON,M.C. LITER LUTRA-LUTRA L MORTALITY AND MARINE OIL POLLUTION $ DEPT VET PATHOL VET FIELD STN WIRRAL CHESHIRE ENGLAND BIOLOGICAL CONSERVATION 20 (4) P. 311-321 1981

OTTERS
0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

0992 VANBLARICOM,G.R., JAMESON,R.J. LOBER SPILL IN CENTRAL CALIFORNIA WATERS IMPLICATIONS FOR OIL SPILLS AND SEA OTTERS $ US FISH AND WILDLIFE SERV SAV SIMEON CA SCIENCE 215 (4539) P. 1503-1505 1982

OUDENHOVEN,J.A.C.M
0790 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DE-ROOCKER,A., KELLY,K.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE REP (9) 52P. 1980

1113 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DEBROCKER,A., KELLY,K.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE 1980

OUDOT,J
0626 OUDOT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

0627 OUDOT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL $ LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

OVERESTIMATION
0339 HAUER,E. BIAS-BY-SELECTION: OVERESTIMATION OF THE EFFECTIVENESS OF SAFETY COUNTERMEASURES CAUSED BY THE PROCESS OF SELECTION FOR TREATMENT $ UNIV OF TORONTO ONT ACCID ANAL PREV 12 (2) P. 113-117 1980

OVERFLOW
1030 CAPROCO CORROSION PREVENTION LTD INVESTIGATION OF THE OVERFLOW AND LOSS OF PETROLEUM FUEL AT STORAGE FACILITIES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-3 OTTAWA ONTARIO 1980

OVERSTREET,R.M
0983 SOLANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND IKINECIES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MJ JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

OVERTON,E.B
0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.K., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACIES COLLOQ INT P. 633-44 1979

OVERVIEW
0064 BELLIER,P., MASSART,G. AMOCO-CADIZ OIL-SPILL CLEANUP OPERATIONS AN OVERVIEW OF THE ORGANIZATION CONTROL AND EVALUATION OF THE CLEANUP TECHNIQUES EMPLOYED $ CEDRE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 141-146 1979

0346 HENRY,M.F. UNDERGROUND LEAKAGE OF HYDROCARBONS AN OVERVIEW OF A POTENTIAL FIRE PROBLEM $ FIRE J (BOSTON) 75 (2) P. 91-94 1981

0738 SNIDER,W.D., SHEEHAN,D.F., JOHNSON,E.K. OVERVIEW OF CURRENT AND PROPOSED TANK VESSEL SAFETY AND POLLUTION PREVENTION MEASURES $ US COAST GUARD SEATTLE WASH PROC - SHIP TECHNOL AND RES (STAR) SYMP 4TH P. 93-119 1979

0810 WHITE,I.C., NICHOLS,J.A., GARNETT,M.J. TEN YEAR OVERVIEW OF OIL SPILL CLEAN-UP AT SEA $ POLLUT FED LTD LONDON ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 247-251 1979

OVIATI,C
0962 OVIATI,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

OWENS,E.H
0628 OWENS,E.H., ROBILLIARD,G.A. SHORELINE SENSITIVITY AND OIL SPILLS A RE-EVALUATION FOR THE 1980'S $ MARINE POLLUTION BULLETIN 12 (3) P. 75-78 1981

1017 OWENS,E.H. CANADIAN INLAND WATERS COASTAL ENVIRONMENTS AND THE CLEANUP OF OIL SPILLS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-3 OTTAWA ONTARIO 1982

OXIDATION-REDUCTION
0329 HAMBRICK,G.A. III, DELAUNE,R.D., PATRICK,W.H. JR. EFFECT OF ESTUARINE SEDIMENT PH AND OXIDATION-REDUCTION POTENTIAL ON MICROBIAL HYDROCARBON DEGRADATION $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-168233 6P. 1980

OXLEY,T.A
0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSUPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

OXNARD
0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

OXYGEN
0029 ARIEL,N.Z., BYUTNER,E.K., BORTKOVSKII,R.S., SIROKINA,L.A. INFLUENCE OF OIL FILM POLLUTION OF THE OCEAN ON OXYGEN EXCHANGE WITH THE ATMOSPHERE $ SOV METEOROL HYDROL (2) P. 47-54 1979

0065 BELOIVANENKO,V.I., MIRONOV,O.G. EFFECT OF OIL POLLUTANTS ON THE RATE OF OXYGEN PENETRATION INTO WATER $ WATER RESOUR 6 (6) P. 882-885 1979

OYSTER
0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., COSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

0318 GRIZEL,H., MICHEL,P., ABARNOU,A., GUEGAN,B. EFFECTS OF AMOCO-CADIZ OIL SPILL ON OYSTER CULTURES $ INST SCI TECH PECHES MARITIMES LA TRINITE/MER FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 715-26 1981

0482 MAHONEY,B.M., HASKIN,H.H. EFFECTS OF PETROLEUM HYDROCARBONS ON THE GROWTH OF PHYTOPLANKTON RECOGNISED AS FOOD FORMS FOR THE EASTERN OYSTER CRASSOSTREA-VIRGINIA-GMELIN $ RUTGERS STATE UNIV NEW BRUNSWICK NJ ENVIRON POLLUT SER A 22 (2) P. 123-132 1980

OYSTERS
0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PAIEL,J.R., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

OZKAYNAK,H
0629 OZKAYNAK,H., MURPHY,B.L., WATSON,J.L. COMPARATIVE RISK ASSESSMENT TECHNIQUE FOR TANKER OIL SPILLS $ ENVIRON RES AND TECHNOL INC LEXINGTON MASS PROC - OIL SPILL LOS ANGELES CALIF P. 37-43 1979

PACIFIC
0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

1062 GREEN,D., HUMPHREY,B., FOWLER,B. RESEARCH NEEDS FOR SPILLS OF OPPORTUNITY: PACIFIC COAST $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-36 OTTAWA ONTARIO 1982

PAGE,D.G
0630 PAGE,D.G. COMPUTER-MODEL WILL AID OIL SPILL CLEANUP EFFORTS $ MIT SEA GRANT CULL PROGRAM CAMBRIDGE MA SEA TECHNOLOGY 21 (9) P. 10-12 1980

PAGE,T
0631 PAGE,T. A FRAMEWORK FOR UNREASONABLE RISK IN THE TOXIC SUBSTANCES CONTROL ACT (TSCA) , CALTECH ENVIRONM QUAL LAB PASADENA CA ANNALS OF THE NEW YORK ACADEMY OF SCIENCES 363 P. 145-166 1981

PAH
0218 DICK,R., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-40 1980

0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX I CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

PALM,D.J
0632 PALM,D.J., ALEXANDER,M.M., PHILLIPS,D.M., LONGABUCCO,P. DAMAGE ASSESSMENT STUDIES FOLLOWING THE NEPCO-140 OIL SPILL ON THE ST.-LAWRENCE RIVER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-154594 175P. 1979

PAMATMAT,M.M
0633 PAMATMAT,M.M. BENTHIC COMMUNITY METABOLISM ON THE CONTINENTAL SHELF OF THE NORTHERN GULF OF MEXICO $ AUBURN UNIV AL 8P. 1979

PANAMA-CITY
0587 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, BARGE PANAMA-CITY GOOD HOPE LOUISIANA AUGUST 30 1979 $ PB-80-200850 45P. 1980 D.C. MARINE ACCIDENT REPORT: COLLISION OF PERUVIAN FREIGHTER M/V INCA-TUPAC-YUPANGUI AND US BUTANE

PANISI,C
0282 FUSSELL,D.R., GUDJEN,H., HAYWARD,P., LILIE,R.N., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE HAGUE NETH CONCAWE REP (7) 155P. 1981

1112 FUSSELL,D.R., GUDJEN,H., HAYWARD,P., LILIE,R.N., MARCO,A., PANISI,C. REVISED INLAND OIL SPILL CLEAN-UP MANUAL $ CONCAWE 1981

PAPIRER,E
0963 PAPIRER,E., BOURGEOIS,C., SIFFERT,B., BALARD,H. CHEMICAL NATURE AND WATER OIL EMULSIFYING PROPERTIES OF ASPHALTENES $ CTR RECH PHYS CHIM SURFACES SOLIDES MULHOUSE FRANCE FUEL 61 (8) P. 732-734 1982

PARAFFINIC
0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-168 1981

PARAGRAP-SUS-QUADRIDENTATUS
0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL DP AR DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (3) P. 459-464 1982

PARASHAR,S
0634 PARASHAR,S., STAPLETON,G., WORSFOLD,R., ONEIL,R., GRAY,L. ASSESSMENT OF SAR FOR OIL POLLUTION SURVEILLANCE IN THE ICE ENVIRONMENT $ REMOTEC APPLICAT INC ST JOHNS NEWFOUNDLAND IN: NORWEGIAN INST TECHNOL POAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 3 P. 99-123 1979

PARASHAR,S.K
1011 DAWE,B.R., PARASHAR,S.K., RYAN,J.P., WORSFOLD,R.D. THE USE OF SATELLITE IMAGERY FOR TRACKING THE KURDISTAN OIL SPILL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-6 OTTAWA ONTARIO 1981

PARIS,D.F
1065 WOLFE,N.L., PARIS,D.F., STEEN,W.C., BAUGHMAN,G.L. CORRELATION OF MICROBIAL DEGRADATION RATES WITH CHEMICAL STRUCTURE $ AMERICAN CHEMICAL SOCIETY 14 (9) P. 1143-1144 1980

PARKER,H
0196 CORMACK,D., PARKER,H. USE OF AIRCRAFT FOR THE CLEARANCE OF OIL SPILLS AT SEA $ WARREN SPRING LAB STEVENAGE HERTFORDSHIRE ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 469-473 1979

PARKER,P.L
0480 MACKO,S.A., PARKER,P.L., BOTELLO,A.V. PERSISTANCE OF SPILLED OIL IN A TEXAS USA SALT-MARSH $ PORT ARANSAS MAR LAB MAR SCI INST UNIV TEX PORT ARANSAS TEX ENVIRON POLLUT SER B CHEM PHYS 2 (2) P. 119-128 1981

PARKHURST,B.R
0300 GIDDINGS,J.M., PARKHURST,B.R., GEHRS,C.W., MILLEMANN,R.E. TOXICITY OF A COAL LIQUEFACTION PRODUCT TO AQUATIC ORGANISMS $ OAK RIDGE NATL LAB TENN BULL ENVIRON CONTAM TOXICOL 25 (1) P. 1-6 1980

PARNAROUSKIS,M.C
0635 PARNAROUSKIS,M.C., TAYLOR,M.W., LIND,C.D., RAJ,P.P.K., CECE,J.M. VAPOR CLOUD EXPLOSION STUDY $ US COAST GUARD WASHINGTON, D.C. CONGR INT SUR LE GAZ NAT LIQUEFIE 6TH 2 16P. 1980

PARRISH,P.R
0361 HOLLISTER,T.A., WARD,G.S., PARRISH,P.R. ACUTE TOXICITY OF A #6-FUEL-OIL TO MARINE ORGANISMS $ EG AND G BIONOM MARINE RES LAB PENSACOLA FL BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 24 (5) P. 656-661 1980

1080 EATON,J.G., PARRISH,P.R., HENDRICKS,A.C. AQUATIC TOXICOLOGY $ PROCEEDINGS OF THE THIRD ANNUAL SYMPOSIUM ON AQUATIC TOXICOLOGY AMERICAN SOCIETY FOR TESTING AND MATERIALS PHILADELPHIA PA 405P. 1978

PARROTTE,R.B
0964 PARROTTE,R.B. (ED.) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1981 $ PROC - 1981 OIL SPILL CONF (PREV BEHAV CONTROL CLEANUP) ATLANTA GA 742P. 1981

PARTICLE
0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

PARTICULATE
0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

0822 WONG,C.K., ENGELHARD,F.R., STRICKLER,J.R. SURVIVAL AND FECUNDITY OF DAPHNIA-PULEX ON EXPOSURE TO PARTICULATE OIL $ UNIV OF OTTAWA ONT CAN BULL ENVIRON CONTAM TOXICOL 26 (5) P. 606-612 1981

PARTICULATES
0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-132403 286P. 1980

PARTITIONING
0289 GEARING,P.J., GEARING,J.N., PRJELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES 1 ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

PASCHALL,V.K
0636 PASCHALL,V.R. OPERATING EXPERIENCE FOR A GAS PIPELINE LEAK DETECTION SYSTEM $ LONE STAR GAS CO SAGINAW TX PROC INT SCH HYDROCARBON MEAS 56 P. 557-9 1981

PASHCHENKO,A.A
0079 BEZORUDKO,O.V., KRUPA,A.A., MEDVEDEV,M.I., PASHCHENKO,A.A., TARASEVICH,Y. APPLICATION OF HYDROPHOBILIZED PERLITE FOR PURIFICATION OF SURFACE WATERS FROM OIL $ ACAD SCI UKSSR INST COLLOID CHEM AND WATER CHEM KIEV UKSSR UKRAINSKII KHIMICHESKII ZHURNAL 46 (1) P. 51-54 1980

PASSIVE
0258 FENNER,R.G., REID,S.C., SOLIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

0739 SOOM,A., MARTIN,H.R., LEA,J.A. PASSIVE ACOUSTIC DETECTION OF GAS LEAKS IN BURIED PIPES $ STATE UNIV OF NY BUFFALO ASME PAP N 80-WA/NC-17 FOR MEET 1DP. 1980

PATEL,J.R
0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.R., HOLMES,J.P., SHIELDS,M.I., MABERRY,T. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

PATELLA-VULGATA
0609 NUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

PATERSON,J.D
1045 PATERSON,J.D. IN SITU PERMEABILITY TESTING FOR PETROLEUM PRODUCT CONTAINMENT DYKES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-18 OTTAWA ONTARIO 1981

PATERSON,S
0850 BOEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-I BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

0924 MACKAY,D., WELLS,P.G., PATERSON,S. CHEMICAL DISPERSION OF OIL SPILLS: AN INTERNATIONAL RESEARCH SYMPOSIUM $ TORONTO UNIV (ONTARIO) INST FOR ENVIRONMENTAL STUDIES 243P. 1980

1034 MACKAY,D., PATERSON,S., TRUDEL,K. A MATHEMATICAL MODEL OF OIL SPILL BEHAVIOUR $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-7 OTTAWA ONTARIO 1980

1035 MACKAY,D., BUIST,I., MASCARENHAS,R., PATERSON,S. OIL SPILL PROCESSES AND MODELS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-8 OTTAWA ONTARIO 1980

1040 MACKAY,D., PATERSON,S. THE PHYSICAL PROPERTIES OF FRESH AND WEATHERED CRUDE-OILS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-13 OTTAWA ONTARIO 1980

1071 MEIKLE,K.M., MACKAY,D., PATERSON,S. SUB-SEA CONTAINMENT OF OIL $ INSTITUTE FOR ENVIRONMENTAL STUDIES TORONTO ONTARIO 1981

PATHOLOGY
0642 PEPELKO,W.E., MATTOX,J.K., YANG,Y.Y., MOORE,W. JR. PULMONARY FUNCTION AND PATHOLOGY IN CATS EXPOSED 28 DAYS TO DIESEL EXHAUST $ HEALTH EFFECTS RESEARCH LAB CINCINNATI OHIO PB-81-196578 11P. 1980

PATRICK,W.H
0211 DELAUNE,R.D., PATRICK,W.H. JR., BURESH,R.J. EFFECT OF CRUDE-OIL ON A LOUISIANA *SPARTINA-ALTERNIFLORA SALT-MARSH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-164502 11P. 1979

0329 HAMBRICK,G.A. III, DELAUNE,R.D., PATRICK,W.H. JR. EFFECT OF ESTUARINE SEDIMENT PH AND OXIDATION-REDUCTION POTENTIAL ON MICROBIAL HYDROCARBON DEGRADATION $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-128233 6P. 1980

PATRICK,W.H

0732 SMITH,C.J., DELAUNE,R.D., PATRICK,W.H. A METHOD FOR DETERMINING STRESS IN WETLAND PLANT COMMUNITIES FOLLOWING AN OIL SPILL $ LOUISIANA STATE UNIV CTR WETLAND RESOURCES WETLAND SOILS AND SEDIMENTS LAB BATON ROUGE LA ENVIRONMENTAL POLLUTION SERIES A-ECOL AND BIOL 26 (4) P. 297-304 1981

PATTERN

0419 KWAN,P.W., CLARK,K.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-163 1981

PAUL,A.J

0255 FEDER,H.M., PAUL,A.J., MCDONALD,J. A PRELIMINARY SURVEY OF THE BENTHOS OF RESURRECTION-BAY AND AIALIK ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-132991 57P. 1979

PAUL,R

0638 PAUL,R., DELCARTE,E., TILMAN,J., GODEFROID,L. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF SIRLET TREES $ DEP BIOL VEG THEOR APPL FAC SCI AGRON ETAT GEMBLOUX BELG TRIM LEBEDEAU 33 (445) P. 547-53 1980

PAUST,B.C

0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCALES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

PAYNE,J.F

0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BROWNS,W.A., CUMMING,R.B. WATER CHLORINATION 3 P. 845-850 1980

0684 PAYNE,J.F. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ RES AND RESOURCE SERV ST JOHNS NEWFOUNDLAND CANADA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 370-372 1982

0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIRRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

PAYNE,J.R

0389 JORDAN,R.E., PAYNE,J.R. FATE AND WEATHERING OF PETROLEUM SPILLS IN THE MARINE ENVIRONMENT A LITERATURE REVIEW AND SYNOPSIS $ LA JOLLA CALIF 0 (3) P. X+174 1980

PCBS

0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

PEAKALL,D.B

0639 PEAKALL,D.B., MILLER,D.S., KINTER,W.B. PHYSIOLOGICAL TECHNIQUES FOR ASSESSING THE IMPACT OF OIL ON SEABIRDS $ CAN WILDL SERV OTTAWA ONT ASTM SPEC TECH PUBL N 693 AVIAN AND MAMM WILDL TOXICOL (SYMP) NEW ORLEANS P. 52-60 1978

0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

PEAKE,E

0230 DUFFY,J.J., PEAKE,E., MOHTADI,M.F. OIL SPILLS ON LAND AS POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION $ UNIV CALGARY CALGARY CANADA ENVIRON .NT 3 (2) P. 167-2[illegible] 1980

PEARCE,J

0967 PEARCE,J. RESEARCH ACTIVITIES RELATED TO OIL POLLUTION INCIDENTS $ NATL MARINE FISH SERV NORTHEAST CENT SANDY HOOK LAB HIGHLANDS N.J. INT COUNC EXPLOR SEA COOP RES REP 3 (137) P. 1-51 1981

PEARSON,W

0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,E. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

PEARSON,W.H

0618 OLLA,B.L., PEARSON,W.H., SUGARMAN,P.C., WOODRUFF,D.L., BLAYLOCK,J.W. THE EFFECTS OF PETROLEUM HYDROCARBONS ON CHEMORECEPTION AND BEHAVIOR IN THE DUNGENESS-CRAB *CANCER-MAGISTER* $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-82-116716 83P. 1981

0640 PEARSON,W.H., MILLER,S.E., BLAYLOCK,J.W., OLLA,B.L. DETECTION OF THE WATER SOLUBLE FRACTION OF CRUDE-OIL BY THE BLUE-CRAB CALLINECTES-SAPIDUS $ BATTELLE PAC NORTHWEST LAB MAR RES LAB SEQUIM WASH MAR ENVIRON RES 5 (1) P. 3-12 1981

PECHENIK,J.A

0384 JOHNS,D.M., PECHENIK,J.A. INFLUENCE OF THE WATER-ACCOMMODATED FRACTION OF NO.-2-FUEL-OIL ON ENERGETICS OF *CANCER-IRRORATUS* LARVAE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT, RI PB-81-185720 10P. 1981

PETRICHOUS-CILIATES
0868 CARUN,D.A., SIEBURTH,J.M.C.N. RESPONSE OF PETRICHOUS-CILIATES IN FOULING COMMUNITIES TO SEAWATER ACCOMMODATED HYDROCARBONS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-181850 23P. 1982

PELAGIC
0285 GALLAWAY,B.J., MARTIN,L.K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0383 JOHANSSON,S., LARSSON,U., BOEHM,P. THE ISESIS OIL SPILL IMPACT ON THE PELAGIC ECOSYSTEM $ ASKO LAB INST MARINE RES UNIV STOCKHOLM SWED MAR POLLUT BULL 11 (0) P. 284-293 1980

0692 SAMAIN,J.F., MIAL,J., DANIEL,J.Y., BOUCHER,J., LEFEVRE,J. ECOPHYSIOLOGICAL EFFECTS OF OIL SPILLS FROM AMOCO-CADIZ ON PELAGIC COMMUNITIES PRELIMINARY RESULTS $ CENT ECLANOL DE BRETAGNE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 175-185 1979

PENAEIDAE
0199 COUCH,J.A. SHRIMPS (ARTHROPODA:-CRUSTACEA:- PENAEIDAE) $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-80-185259 26P. 1979

PENGUINS
0660 RANDALL,R.M., RANDALL,B.M., BEVAN,J. OIL POLLUTION AND PENGUINS IS CLEANING JUSTIFIED $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (8) P. 234-237 1980

PENMAN,A.D.M
0641 PENMAN,A.D.M. SOIL STRUCTURE INTERACTION AND DEFORMATION PROBLEMS WITH LARGE OIL TANKS $ BUILDING RESEARCH STATION WATFORD ENGLAND PB-80-227192 20P. 1976

PENNSYLVANIA
0595 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT PENNSYLVANIA GAS AND WATER COMPANY NATURAL-GAS EXPLOSIONS WILLIAMSPORT PENNSYLVANIA JANUARY 25 1977 $ PB-277-052/7ST 26P. 1977

0796 VILLAUME,J.F., HERRE,B.H., VOYKIN,D.P. CLEANUP OF AN OIL SPILL INTO GROUND-WATER AT WILLIAMSPORT PENNSYLVANIA A CASE HISTORY $ PA POWER AND LIGHT CO ALLENTOWN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 501-505 1979

PEPELKO,W.E
0642 PEPELKO,W.E., MATTOX,J.K., YANG,Y.Y., MOORE,W. JR. PULMONARY FUNCTION AND PATHOLOGY IN CATS EXPOSED 28 DAYS TO DIESEL EXHAUST $ HEALTH EFFECTS RESEARCH LAB CINCINNATI OHIO PB-81-196578 11P. 1980

PEPELKO,W.E

0797 VINEGAR,A., CARSON,A.I., PEPELKO,W.E. PULMONARY FUNCTION CHANGES IN CHINESE HAMSTERS EXPOSED SIX MONTHS TO DIESEL EXHAUST $ DEP ENVIRON HEALTH UNIV CINCINNATI OHIO PROC INT SYMP PB-81-13817 P. 749-56 1980

PERFORMANCE

0105 BRESLIN,M.K. PERFORMANCE TESTING OF THE DIPERNA-SWEEPER $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-109174 44P. 1981

0107 BRESLIN,M.K. PERFORMANCE TESTS OF HIGH SPEED ZRV OIL SKIMMER $ COAST GUARD WASHINGTON, D.C. AD-A086-062/5 156P. 1980

0449 LICHTE,H.W. PERFORMANCE TESTING OF THE SOVIET OIL/DEBRIS SKIMMER $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-244790 42P. 1981

0450 LICHTE,H.W., BRESLIN,M.K., SMITH,G.F., GRAHAM,D.J., URBAN,R.W. PERFORMANCE TESTING OF FOUR SKIMMING SYSTEMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101353 92P. 1981

0451 LICHTE,H.W. SKIMMING BARRIER PERFORMANCE EVALUATION: OFFSHORE VERSION AND HARBOR VERSION $ MASON AND HANGER-SILAS MASON CO LEONARDO NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 489-492 1979

0510 MEEKS,D.G. PERFORMANCE OF SOME OIL DISPERSANTS ON OIL SLICKS OF VARYING THICKNESS $ BRITISH PETR CO LTD BP RES CTR CHERTSEY RD SUNBURY ON THAMES MIDDLESEX ENGLAND MARINE POLLUTION BULLETIN 11 (12) P. 348-352 1980

0621 O'NEIL,R.A., BUJA-BIJUNAS,L., RAYNER,D.M. FIELD PERFORMANCE OF A LASER-FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ DEP OF ENERGY MINES AND RESOUR OTTAWA APPL OPT 19 (6) P. 863-870 1980

1050 BURST,M. QUANTIFIED PERFORMANCE TESTING OF THE ZOOM BOOM $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-23 OTTAWA ONTARIO 1981

1094 O'NEIL,L.B., RAYNER,D.M. FIELD PERFORMANCE OF A LASER FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ REPRINT FROM APPLIED OPTICS 19 (6) P. 863-70 1980

1140 BURST,M. QUANTIFIED PERFORMANCE TESTING OF THE ZOOM BOOM $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

PERGUSHEV,L.P

0685 KUZENTSVAIG,A.K., ERONOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

PERKINS,T.K
0151 BURGER,E.D., CHURN,L.G., PERKINS,T.K. STUDIES OF DRAG REDUCTION CONDUCTED OVER A BROAD RANGE OF PIPELINE CONDITIONS WHEN FLOWING PRUDHOE-BAY CRUDE-OIL $ ARCO OIL AND GAS CO DALLAS TX JOURNAL OF RHEOLOGY 24 (5) P. 603-625 1980

PERLITE
0079 BEZDRUDKO,D.V., KRUPA,A.A., MEDVEDEV,K.I., PASHCHENKO,A.A., TANASEVICH,Y. APPLICATION OF HYDROPHOBILIZED PERLITE FOR PU IFICATION OF SURFACE WATERS FROM OIL $ ACAD SCI UKSSR INST COLLOID CHEM AND WATER CHEM KIEV UKSSR UKRAINSKII KHIMICHESKII ZHURNAL 46 (1) P. 51-54 1980

PERMA-FROST
0985 SPARROW,E.B. LONG-TERM RESPONSE OF SOIL MICRO-ORGANISMS TO CRUDE-OIL SPILLS ON PERMA-FROST TERRAIN IN INTERIOR ALASKA USA $ INST OF WATER RESOURCES UNIV OF ALASKA FAIRBANKS ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 50-51 1981

PERMAFROST
0387 JOHNSON,L.A., COLLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

PERMEABILITY
1045 PATERSON,J.D. IN SITU PERMEABILITY TESTING FOR PETROLEUM PRODUCT CONTAINMENT DYKES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-18 OTTAWA ONTARIO 1981

PERRY,G.M
0093 BUEHM,P.D., STEINHAUER,W.G., FIEST,D.L., MOSESMAN,N., HAKAK,J.E., PERRY,G.M. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON POLLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMBRIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

PERRY,W.W
0643 PERRY,W.W., ARTICOLA,W.P. STUDY TO MODIFY THE VULNERABILITY MODEL OF THE RISK MANAGEMENT SYSTEM $ ENVIRO CONTROL INC ROCKVILLE MD AD-A084-214/6 212P. 1980

PERSISTANCE
0480 MACKIN,S.A., PARKER,P.L., BOTELLO,A.V. PERSISTANCE OF SPILLED OIL IN A TEXAS USA SALT-MARSH $ PORT ARANSAS MAR LAB MAR SCI INST UNIV TEX PORT ARANSAS TEX ENVIRON POLLUT SER B CHEM PHYS 2 (2) P. 119-128 1981

PESTICIDES
0417 KUWABARA,K., NAKAMURA,A., KASHIMOTO,T. EFFECT OF PETROLEUM OIL PESTICIDES PCBS AND OTHER ENVIRONMENTAL CONTAMINANTS ON THE HATCHABILITY OF ARTEMIA-SALINA DRY EGGS $ OSAKA PREFECTURAL INST PUBL HLTH FOOD CHEM LAB OSAKA JAPAN BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 25 (1) P. 69-74 1980

PESTICIDES
1068 COPENHAVER,E.D., WILKINSON,B.K. MOVEMENT OF HAZARDOUS SUBSTANCES IN SOIL A BIBLIOGRAPHY VOLUME 2 PESTICIDES $ PB80-113111 228P. 1979

PETERSEN,H
0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

PETRAKIS,L
0645 PETRAKIS,L. (ED), WEISS,F.T. (ED) PETROLEUM IN THE MARINE ENVIRONMENT SYMPOSIUM AT THE MEETING OF THE AMERICAN CHEMICAL SOCIETY 176TH 1978 $ GULF RES AND DEV CO PITTSBURGH PA SYMP AT THE MEET OF THE ACS 371P. 1979

PETRO-FIBER
0024 ANON. PETRO-FIBER IDEAL SORBENT FOR OIL SPILLS $ OCEAN IND 16 (4) 418P. 1981

PETROCHEMICAL
0247 ENVIRONMENTAL PROTECTION AGENCY SEATTLE WA ALASKA PETROCHEMICAL COMPANY REFINERY AND PETROCHEMICAL FACILITY VALDEZ ALASKA $ PB-81-117038 349P. 1980

PETROLE
0075 BERTRAND,A.R.V. MAJOR OFFSHORE OIL SPILL ACCIDENTS AND THE TANKER ACCIDENT DATA BANK (1955-1979) OF THE INSTITUT FRANCAIS DU PETROLE $ INST FR DU PET REV INST FR PET 24 (3) P. 483-541 1979

0843 BERTRAND,A.R.V. INSTITUT FRANCAIS DU PETROLE DATABANK ON ACCIDENTAL OIL SPILLS AT SEA (1955-1980) NEW RESULTS $ (LA BANQUE DE DONNEES DE L'INSTITUT FRANCAIS DU PETROLE SUR LES DEVERSEMENTS ACCIDENTELS DE PETROLE EN MER (1955-1980) - NOUVEAUX RESULTATS) INST FR DU PET RUEIL-MALMAISON REV INST FR PET 36 (2) P. 229-239 1981

PETROLEOS-MEXICANOS
0447 LEVENTHAL,F.D. THE BAY OF CAMPECHE OIL SPILL OBTAINING JURISDICTION OVER PETROLEOS-MEXICANOS UNDER THE FOREIGN SOVEREIGN IMMUNITIES ACT OF 1976 $ UNIV CALIF BERKELEY SCH LAW BERKELEY CA ECOLOGY LAW QUARTERLY 9 (2) P. 341-377 1981

PETROLEUM-INDUCED
0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

PETROLEUM-MIGRATION
0774 TOTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CORDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

PETROMAR
0833 ANON PETROLEUM AND THE MARINE ENVIRONMENT PETROMAR 80 1980 $ EUROCEAN (ASSOC EUR OCEANIQUE) MONACO PET AND THE MAR ENVIRON PETROMAR 80 MONACO 788P. 1980

1074 ANONYMOUS PETROLEUM AND THE ENVIRONMENT - PETROMAR 80 $ GRAHAM AND TROTMAN LIMITED 1980

PETTY,S.E
0931 MERCER,B.W., WAKAMIYA,W., PETTY,S.E., STRAND,J.A., MAHLUM,D.D. ASSESSMENT OF SYNFUEL SPILL CLEANUP OPTIONS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 15P. 1981

1136 WAKAMIYA,W., PETTY,S.E., BOIARSKI,A., PUTMAN,A. COMBUSTION OF OILS ON WATER AN EXPERIMENTAL PROGRAM $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 198?

PEYRELASSE,J
0177 CLAUSSE,M., BONED,C., PEYRELASSE,J., LAGOURETTE,B., MCCLEAN,V., SHEPPARD,R.J. DIELECTRIC AND CONDUCTIVE PROPERTIES OF WATER-IN-OIL TYPE MICRO-EMULSIONS $ UNIV PAU AND PAYS ADOUR INST RECH SCI DEPT PHYS THERMODYNAM LAB PAU FRANCE IN: SHAH,D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 199-228 1981

PFAENDER,F.K
0116 BUCKLEY,E.N., PFAENDER,F.K. EFFECTS OF IXTOC-1 OIL SPILL ON OCEANIC MICROBIAL COMMUNITIES $ UNIV OF NORTH CAROLINA CHAPEL HILL NC 81ST ANNUAL MEETING OF THE AMERICAN SOCIETY FOR MICROBIOLOGY 81 (0) 182P. 1981

PH
0329 HAMBRICK,G.A. III, DELAUNE,R.D., PATRICK,W.H. JR. EFFECT OF ESTUARINE SEDIMENT PH AND OXIDATION-REDUCTION POTENTIAL ON MICROBIAL HYDROCARBON DEGRADATION $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-126233 6P. 1980

PHASES
0091 BOBRA,A., MACKAY,D., SHIU,W.Y. DISTRIBUTION OF HYDROCARBONS AMONG OIL WATER AND VAPOR PHASES DURING OIL DISPERSANT TOXICITY TESTS $ UNIV OF TORONTO ONT BULL ENVIRON CONTAM TOXICOL 23 (4-5) P. 558-565 1979

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

PHENOLS
0415 KUCHERENKO,L.A., KAMYSHOVA,V.K. DEPENDENCE OF THE TOXIC AND PROTECTIVE PROPERTIES OF SHALE-OILS ON THEIR CONTENTS OF WATER SOLUBLE PHENOLS $ MV LOMONO SOV STATE UNIV MOSCOW JOURNAL OF APPLIED CHEMISTRY OF THE USSR 54 (1) P. 112-114 1981

PHILLIPS,D.M
0632 PALM,D.J., ALEXANDER,M.M., PHILLIPS,D.M., LONGABUCCO,P. DAMAGE ASSESSMENT STUDIES FOLLOWING THE NEPCO-140 OIL SPILL ON THE ST.-LAWRENCE RIVER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-154594 175P. 1979

PHILLIPS,W.R
0654 PROVOST,L.P., WETHEROLD,R.G., HARRIS,G.E., HOOPER,M.W., PHILLIPS,W.R. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 4 APPENDICES C, D AND E $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-103830 529P. 1980

PHOSPHORESCENCE-SPECTROSCOPY
0194 CURFIELD,M.N., HAWKINS,H.L., JOHN,P., SOUTAR,I. ASSESSMENT OF PHOSPHORESCENCE-SPECTROSCOPY FOR CRUDE-OIL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ANALYST (LONDON) 106 (1259) P. 188-97 1981

PHOTOCHEMICAL
0016 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SOKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

PHOTOOXIDATION
0423 LARSON,R.A., HUNT,L.L., BLANKENSHIP,D.W. FORMATION OF TOXIC PRODUCTS FROM A #2-FUEL-OIL BY PHOTOOXIDATION $ STROUD WATER RES CENT OF ACAD OF NAT SCI OF PHILADELPHIA AVONDALE ENVIRON SCI TECHNOL 11 (5) P. 492-496 1977

PHOTOOXIDIZED
0915 KARYDIS,M. TOXICITY OF A PHOTOOXIDIZED CRUDE-OIL ON 2 MARINE MICROALGAE $ NUCL RES CTR DEMOCRITOS DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE BOTANICA MARINA 25 (1) P. 25-29 1982

PHYSICAL
0404 KERR,C.L., BARRIENTOS,C.S. WORKSHOP ON THE PHYSICAL BEHAVIOR OF OIL IN THE MARINE ENVIRONMENT HELD AT PRINCETON UNIVERSITY PRINCETON NEW JERSEY ON MAY 8-9 1979 $ NATIONAL WEATHER SERVICE SILVER SPRING MD PB-81-123796 386P. 1979

0472 LONG,E.R. PHYSICAL PROCESSES AND CRITICAL BIOLOGICAL AREAS IN THE VICINITY OF A PROPOSED PETROLEUM TRANSFER FACILITY $ NOAA SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S P. 489-497 1980

PHYSICAL

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

1003 LEENHEER,J.A., STUBER,H.A., NOYES,T.I. CHEMICAL AND PHYSICAL INTERACTIONS OF AN IN SITU OIL-SHALE PROCESS WATER WITH A SURFACE SOIL $ US GEOL SURV DENVER COLO OIL SHALE SYMP PROC 14TH GOLDEN COLO P. 357-375 1981

1032 TWARDUS,E.M. A STUDY TO EVALUATE THE COMBUSTIBILITY AND OTHER PHYSICAL AND CHEMICAL PROPERTIES OF AGED OILS AND EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-5 OTTAWA ONTARIO 1980

1040 MACKAY,D., PATERSON,S. THE PHYSICAL PROPERTIES OF FRESH AND WEATHERED CRUDE-OILS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-13 OTTAWA ONTARIO 1980

PHYSICAL-CHEMICAL

0720 SIERKA,R.A., SAADATI,A. PHYSICAL-CHEMICAL TREATMENT OF OIL-SHALE RETORT WATER $ UNIV OF ARIZ TUCSON USA PROC OF THE SPEC CONF - WATER FORUM '81 2 P. 902-909 1981

0850 BUEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-1 BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 499-505 1982

1148 BUEHM,P.D., MACKAY,D. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDROCARBONS FROM THE IXTOC-I BLOWOUT - CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1981

PHYSICALLY

0909 HENSON,J.M., HAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1980

PHYSICOCHEMICAL
0683 ROUSSEL,J.C., GAUTIER,R. AGEING OF ARABIAN LIGHT CRUDE-OIL IN SEAWATER PHYSICOCHEMICAL CHARACTERS DURING SIX MONTHS $ INST FRANCAIS PETROLE RUEIL MALMAISON FRANCE AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 135-47 1979

PHYSIOLOGICAL
0639 PEAKALL,D.B., MILLER,D.S., KINTER,W.B. PHYSIOLOGICAL TECHNIQUES FOR ASSESSING THE IMPACT OF OIL ON SEABIRDS $ CAN WILDL SERV OTTAWA ONT ASTM SPEC TECH PUBL N 693 AVIAN AND MAMM WILDL TOXICOL (SYMP) NEW ORLEANS P. 52-60 1978

PHYSIOLOGICAL-BIOCHEMICAL
0499 MAZMANIDI,N.D., KOTOV,A.M. EFFECT OF PETROLEUM DISPERSANTS ON THE SURVIVAL RATE AND SOME PHYSIOLOGICAL-BIOCHEMICAL BLOOD INDEXES OF THE BLACK SEA SEA-BASS (SPICARA-SMARIS-L.) $ USES NAUCHNO-ISSLED INST MORSK RYBN KHOZ OKEANOGR BATUMI USSR GIDROBIOL ZH 17 (1) P. 74-8 1981

PHYSIOLOGICAL/TOXICOLOGICAL
0747 STICKEL,L.F., DIETER,M.P. ECOLOGICAL AND PHYSIOLOGICAL/TOXICOLOGICAL EFFECTS OF PETROLEUM ON AQUATIC BIRDS A SUMMARY OF RESEARCH ACTIVITIES FY76 $ FISH AND WILDLIFE SERVICE LAUREL MD PB-80-127285 20P. 1979

PHYSIOLOGY
1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1980

1043 DUVAL,W.S., FINK,R.P. THE SUBLETHAL EFFECTS OF WATER-SOLUBLE HYDROCARBONS ON THE PHYSIOLOGY AND BEHAVIOUR OF SELECTED MARINE FAUNA $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-16 OTTAWA ONTARIO 1981

PHYTOPLANKTON
0482 MAHONEY,B.M., HASKIN,H.H. EFFECTS OF PETROLEUM HYDROCARBONS ON THE GROWTH OF PHYTOPLANKTON RECOGNISED AS FOOD FORMS FOR THE EASTERN OYSTER CRASSOSTREA-VIRGINIA-GMELIN $ RUTGERS STATE UNIV NEW BRUNSWICK NJ ENVIRON POLLUT SER A 22 (2) P. 123-132 1980

PICER,M
0005 AHEL,M., PICER,M. AN OIL SPILL AT SEA ORIGIN AND FATE $ CENT ISTRAZIVANJE MORA INST "RUDER BOSKOVIC" ZAGREB-ROVINJ YUGOSLAVIA ACTA ADRIAT 21 (1) P. 237-48 1980

PICHUGIN,A.P
0914 KALMYKOV,A.I., PICHUGIN,A.P. SPECIAL FEATURES OF THE DETECTION OF SEA SURFACE INHOMOGENEITIES BY THE RADAR METHODS $ OSOBENNOSTI OBNARUZHENIYA NEODNORODNOSTEI MORSKOI POVERKHNOSTI RADIOLOKATSIONNYM METODOM ACAD OF SCI OF THE UKR SSR INST OF RADIOPHYS AND ELECTRON KIEV IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 754-761 1981

PICOT,J.J.C

1033 MACKAY,D., KRISTMANSON,D.D., PICOT,J.J.C., SMEDLEY,J.B. THEORETICAL ASSESSMENT AND DESIGN STUDY OF THE AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-6 OTTAWA ONTARIO 1980

PIERMAN,B.C

0647 PIERMAN,B.C. THE APPLICATION OF FAULT-TREES TO THE EVALUATION OF RISK $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-80-188790 4P. 1979

PIPE

0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

PIPELINE

0118 BOHITE,T.R. CLEANUP OF A COLD WEATHER TERRESTRIAL PIPELINE SPILL $ ALYESKA PIPELINE SERV CO ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 367-369 1979

0151 BURGER,E.D., CHURN,L.G., PERKINS,T.K. STUDIES OF DRAG REDUCTION CONDUCTED OVER A BROAD RANGE OF PIPELINE CONDITIONS WHEN FLOWING PRUDHOE-BAY CRUDE-OIL $ ARCO OIL AND GAS CO DALLAS TX JOURNAL OF RHEOLOGY 24 (5) P. 603-626 1980

0201 COX,J.M., EBBESMEYER,C.C., HELSETH,J.M., COUMES,C.A. DRIFT CARD OBSERVATIONS IN NORTHWESTERN WASHINGTON ALONG PORTIONS OF TWO PROPOSED OIL PIPELINE ROUTES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-173833 196P. 1980

0229 DRISCOLL,W.J. PIPELINE AND HAZARDOUS MATERIALS TRANSPORTATION SAFETY AND OIL SPILL REDUCTION $ US DOT WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 23-25 1979

0374 INGRAO,H.C., HEIDERSBACH,R.H., SHARP,R.K. PIPELINE TRANSPORTATION SAFETY R AND D WORKING GROUP MEETING PROCEEDINGS HELD AT CAMBRIDGE MASSACHUSETTS ON JUNE 30-JULY 1 1980 $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-81-151359 70P. 1980

0566 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PIPELINE CORROSION 1977-JULY 1981 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ PB-81-808545 233P. 1981

0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

PIPELINE

0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF CORDELLE GEORGIA EXPLOSION AND FIRE CORDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

0583 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1980 $ PB-81-156978 52P. 1980

0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT THE PIPELINES OF PUERTO-RICO INC PETROLEUM PRODUCTS PIPELINE RUPTURE AND FIRE BAYAMON PUERTO-RICO JANUARY 30 1980 $ PB-81-204851 69P. 1980

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

0591 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSION 215 THIRD STREET SE WASHINGTON, D.C. OCTOBER 30 1979 $ PB-80-213457 33P. 1980

0592 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSIONS AT ANNANDALE VIRGINIA MARCH 24 1972 $ PB-214-328/7 42P. 1972

0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

0595 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT PENNSYLVANIA GAS AND WATER COMPANY NATURAL-GAS EXPLOSIONS WILLIAMSPORT PENNSYLVANIA JANUARY 25 1977 $ PB-277-052/7ST 26P. 1977

0636 PASCHALL,V.R. OPERATING EXPERIENCE FOR A GAS PIPELINE LEAK DETECTION SYSTEM $ LONE STAR GAS CO SAGINAW TX PROC INT SCH HYDROCARBON MEAS 56 P. 557-9 1981

0664 REED,W.E. PIPELINE CORROSION 1964 APRIL 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-810013 221P. 1980

0665 REED,W.E. PIPELINE CORROSION 1977 APRIL 1980 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-810021 243P. 1980

0687 SAGE,B. RUPTURES IN THE TRANS-ALASKA OIL PIPELINE CAUSES AND EFFECTS $ AMBIO 9 (5) P. 262-263 1980

0696 SARTOR,J.D., CASTLE,R.W. CONTINGENCY PLANNING FOR LIQUID PIPELINE SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF ASME PAP N 81-PET-12 FOR MEET 8P. 1981

PIPELINE

0703 SCHWENK,W. CORROSION CHEMICAL REQUIREMENTS ON THE PROPERTIES OF PIPELINE COATINGS $ MANNESMANN FORSCHUNGSINST GMBH DUISBURG FED REP GER 3 (DREI) R ROHRE ROHRLEITUNGSBAU ROHRLEITUNGSTRANSP 19 (10) P. 586-93 1980

0776 DEPARTMENT OF TRANSPORTATION WASHINGTON, D.C. ANNUAL REPORT OF PIPELINE SAFETY 1978 $ PB-81-154874 95P. 1978

0777 DEPARTMENT OF TRANSPORTATION WASHINGTON, D.C. ANNUAL REPORT ON PIPELINE SAFETY 1979 $ PB-81-154882 59P. 1979

0830 ZVEREVA,T.V., YAKOVLEV,E.I. IMPROVEMENT IN METHODS OF RATING OIL PIPELINE SYSTEMS $ NEFTYANOE KHOZYAISTVO (7) P. 66-68 1980

0875 CULLEY,J.L.B., DOW,B.K., PRESANT,B.W., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION $ AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

0944 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PIPELINE CORROSION 1964-FEBRUARY 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-806423 179P. 1982

0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

0989 SUCH,W. BEING SMART BEFORE THE DAMAGE IS DONE EXPERIENCES WITH PIPELINE ACCIDENTS IN EUROPE $ UMSCHAU DAS WISSENSCHAFTSMAGAZIN 82 (4) 119P. 1982

PIPELINES

0220 DIDENKO,V.S. RHEOLOGICAL PROPERTIES OF WATER-OIL EMULSIONS TRANSPORTED IN PIPELINES $ NEFTYANOE KHOZYAISTVO (12) P. 53-56 1980

0327 HABERCOM,G.E. JR. OFFSHORE PIPELINES (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-805328 124P. 1980

0406 KLAIBER,T. TESTS FOR DETECTING LEAKS IN PETROLEUM PIPELINES $ TECHNISCHES MESSEN 47 (4) 157P. 1980

0561 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PIPELINES 1964-FEBRUARY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-804700 208P. 1981

0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT THE PIPELINES OF PUERTO-RICO INC PETROLEUM PRODUCTS PIPELINE RUPTURE AND FIRE BAYAMON PUERTO-RICO JANUARY 30 1980 $ PB-81-204851 69P. 1980

0670 RICHTER,M., KALLENOWSKY,E. A METHOD SAVING EXCAVATION WORK FOR REPAIRING LEAKS IN LOW PRESSURE GAS PIPELINES $ BRENNSTOFFINST FREIBERG FACHBEREICH LEIPZIG LEIPZIG GER ENERGIETECHNIK 31 (2) P. 58-61 1981

PIPELINES
0781 TURNER,M.J. SAFETY EVALUATION OF CROSS COUNTRY PIPELINES $ HEALTH AND SAF EXEC LONDON ENGL 7TH INT SYMP INST CHEM ENG SYMP SER (58) P. 245-256 1980

0825 YEN,B.C., TSAO,C.H., HINKLE,R.D. SOIL-PIPE INTERACTION OF HEATED OIL PIPELINES $ CALIF STATE UNIV LONG BEACH CA TRANSPORTATION ENGINEERING JOURNAL OF ASCE 107 (1) P. 1-14 1981

0845 BLACK,W.T., HOLLOWAY,D.M., LUSCHER,U., NYMAN,D.J., THOMAS,H.P. STUDY OF THE FACTORS AFFECTING THE SAFETY OF ARCTIC PIPELINES $ DEPARTMENT OF TRANSPORTATION WASHINGTON,D.C. PB82-149030 114P. 1981

0948 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PIPELINES 1964-APRIL 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-803205 239P. 1982

PIPES
0527 MUKHERJEE,M., BRILL,J.P., BEGGS,H.D. EXPERIMENTAL STUDY OF OIL WATER FLOW IN INCLINED PIPES $ JOHNSTON MACCO SCHLUMBERGER SUGERLAND TX JOURNAL OF ENERGY RESOURCES TECHNOLOGY-TRANSACTIONS OF THE ASME 103 (1) P. 56-66 1981

0739 SOOM,A., MARTIN,H.R., LEA,J.A. PASSIVE ACOUSTIC DETECTION OF GAS LEAKS IN BURIED PIPES $ STATE UNIV OF NY BUFFALO ASME PAP N 80-WA/NC-17 FOR MEET 10P. 1980

PLAGE,W.E
0811 WHITE,J.R., SCHMIDT,R.E., PLAGE,W.E. AIREYE REMOTE-SENSING SYSTEM FOR OIL SPILL SURVEILLANCE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 301-304 1979

PLAN
0235 DEPARTMENT OF ENERGY WASHINGTON, D.C. SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN $ BENDIX CORP KANSAS CITY 57P. 1981

0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

0823 WRIGHT,D.G. PLAN FOR SCIENTIFIC RESPONSE TO AN OIL SPILL IN THE BEAUFORT-SEA $ FISH AND ENVIRON CAN WINNIPEG MANIT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 525-532 1979

0938 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO HAZARDOUS MATERIALS RESPONSE PROJECT: PROGRAM PLAN $ PB82-193046 33P. 1981

PLANKTON
0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

PLANS
0622 ONEILL,T. OIL SPILL CONTINGENCY PLANS AND POLICIES IN NORWAY AND THE UNITED-KINGDOM $ YALE UNIV SCH FORESTRY AND ENVIRONM STUDIES NEW HAVEN CT COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 289-317 1980

PLANT
0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

0525 MUSS,T.J. QUANTITATIVE TECHNIQUES FOR NUCLEAR PLANT SAFETY ASSESSMENT AND DESIGN $ AUSTRALIAN ATOMIC ENERGY COMMISSION GOUGEE 9P. 1978

0732 SMITH,C.J., DELAUNE,R.D., PATRICK,W.H. A METHOD FOR DETERMINING STRESS IN WETLAND PLANT COMMUNITIES FOLLOWING AN OIL SPILL $ LOUISIANA STATE UNIV CTR WETLAND RESOURCES WETLAND SOILS AND SEDIMENTS LAB BATON ROUGE LA ENVIRONMENTAL POLLUTION SERIES A-ECOL AND BIOL 26 (4) P. 297-304 1981

0930 MCKINLEY,V.L., FEDERLE,T.W., VESTAL,J.R. EFFECTS OF PETROLEUM HYDROCARBONS ON PLANT LITTER MICROBIOTA IN AN ARCTIC LAKE $ UNIV CINCINNATI DEPT BIOL SCI CINCINNATI OH APPLIED AND ENVIRONMENTAL MICROBIOLOGY 43 (1) P. 129-135 1982

PLANTE-CUNY,M.R
0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

PLANTS
0288 GEALER,R.L., GOLOVOY,A., WEINTRAUB,M.H. ELECTROLYTIC TREATMENT OF OILY WASTEWATER FROM MANUFACTURING AND MACHINING PLANTS $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-225113 59P. 1980

0795 VETTERKIND,D.W. ACQUISITION AND APPLICATION OF RELIABILITY INFORMATION FOR THE PLANNING AND MAINTENANCE OF NUCLEAR POWER PLANTS $ RHEINISCH-WESTFAELISCHES ELEKTRIZITAETSWERK A.G. ESSEN GERMANY 11P. 1979

PLASMID
0878 DEVEREUX,R., SIZEMORE,R.K. PLASMID INCIDENCE IN MARINE BACTERIA ISOLATED FROM PETROLEUM POLLUTED SITES ON DIFFERENT PETROLEUM HYDROCARBONS $ UNIV N CAROLINA DEPT BIOL WILMINGTON NC MARINE POLLUTION BULLETIN 13 (6) P. 198-202 1982

PLATE

0515 MEYERS,J.L. OIL WATER SEPARATION: GRAVITY PLATE SEPARATORS $ ENVIRON ENG LTD CEA CHEM ENG AUST CHE 5 (4) P. 36-38 1980-81

PLATEL,R

0970 KAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,M., REUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

PLATFORM

0779 IVEIT,O.J., MYKLATUN,B., BOHLER,T., VESTERHAUG,O. RISK ANALYSIS OF A TYPICAL NORTH SEA PETROLEUM PRODUCTION PLATFORM $ DET NOR VERITAS NORW OFFSHORE TECHNOL CONF 12TH ANNUAL PROC 4 P. 501-508 1980

0998 WIESENBURG,D.A., BODENNEC,G., BROOKS,J.M. VOLATILE LIQUID HYDROCARBONS AROUND A PRODUCTION PLATFORM IN THE NORTHWEST GULF OF MEXICO $ TEX A AND M UNIV COLLEGE STATION USA BULL ENVIRON CONTAM TOXICOL 27 (2) P. 167-174 1981

PLATFORMS

0377 JACKSON,G.F., HUME,E., WADE,M.J., KIRSCH,M. OIL CONTENT IN PRODUCED BRINE ON TEN LOUISIANA PRODUCTION PLATFORMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-108408 495P. 1981

0858 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 1,2 AND 3 $ PB82-167784 218P. 1981

0859 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 4 AND 5 $ PB82-167792 210P. 1981

0860 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 6 AND 7 $ PB82-167800 522P. 1981

0861 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME I PART 8 $ PB82-167818 340P. 1981

0862 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME II $ PB82-167826 175P. 1981

0863 BUREAU OF LAND MANAGEMENT NEW ORLEANS LA ECOLOGICAL INVESTIGATIONS OF PETROLEUM PRODUCTION PLATFORMS IN THE CENTRAL GULF OF MEXICO: VOLUME III EXECUTIVE SUMMARY $ PB82-167834 36P. 1981

PLATFORMS
0955 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PLATFORMS: TECHNOLOGY REGULATIONS AND ENVIRONMENTAL EFFECTS 1977-JUNE 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-868381 173P. 1982

PLAUT,T.R
0452 LIEBOW,E.B., BUTLER,R.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

PLUTNIKOVA,G.I
0731 SMIRNOVA,A.V., PLUTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

POISONING
0627 DOUDOT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL : LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

POKROVSKAYA,I.V
0077 BESPALOVA,E.A., MILITSKIY,V.A., POKROVSKAYA,I.V., MIROVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (10) P. 54-58 1978

PULA-DE-LENA
0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND CHETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

PULEY,J.P
0649 PULEY,J.P. SELECTIVE OIL SPILL COMBAT PLANNING FOR OFFSHORE EXPLORATION AND PRODUCTION OPERATIONS IN THE NORTH SEA $ SHELL INT PET THE HAGUE NETH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 641-647 1979

0650 PULEY,J.P., CALLAGHAN,D. SELECTIVE OIL SPILL COMBAT PLANNING FOR OFFSHORE OPERATIONS $ SHELL INT PETR MIJ THE HAGUE NETHERLANDS IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 433-447 1981

0873 COLLINS,J.W., PULEY,J.P. OIL SPILL CONTINGENCY PLANNING TO MINIMIZE IMPACTS FROM A MAJOR OIL WELL SPILL $ CITIES SERV CO USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 HOUSTON TEXAS P. 473-474 1981

POLICIES
0622 ONEILL,T. OIL SPILL CONTINGENCY PLANS AND POLICIES IN NORWAY AND THE UNITED-KINGDOM $ YALE UNIV SCH FORESTRY AND ENVIRONM STUDIES NEW HAVEN CT COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 289-317 1980

POLICY
0493 MARCUS,H.S., DEWHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

POLYCHLORINATED-BIPHENYLS
0262 FINGERMAN,S.W. DIFFERENCES IN THE EFFECTS OF FUEL OIL AN OIL DISPERSANT AND THREE POLYCHLORINATED-BIPHENYLS ON FIN REGENERATION IN THE GULF COAST KILLIFISH FUNDULUS-GRANDIS $ TULANE UNIV NEW ORLEANS LA BULL ENVIRON CONTAM TOXICOL 25 (2) P. 234-240 1980

POLYCYCLIC-AROMATICS
0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BROWNS,W.A., CUMMING,R.B. WATER CHLORINATION 3 P. 845-850 1980

POLYMERS
0326 HALL,R.H., HAIGH,D.H., MARTIN,R.G., WAMPFLER,D.J. USE OF ABSORBENT (IMBIBING) POLYMERS IN SPILL CONTROL $ DOWN CHEM CO MIDLAND MICH 13TH LOSS PREV SYMP P. 170-174 1980

POLYNUCLEAR-AROMATIC-HYDROCARBON
0725 SIROTA,G.R., UTHE,J.F., COOKE,M. (ED), DENNIS,A.J. (ED) POLYNUCLEAR-AROMATIC-HYDROCARBON CONTAMINATION IN MARINE SHELL $ HALIFAX LAB DEP FISH OCEANS HALIFAX NS CAN CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 329-41 1981

POLYNUCLEAR-AROMATIC-HYDROCARBONRING
0175 CHMIELOWIEC,J., BESHAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN LLOYDMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

POLYURETHANE
0306 GUMULKA,E., RYBKA,J. POLYURETHANE RESINS AS OIL SORBENTS IN WASTEWATER TREATMENT $ POLYTECH INST WROCLAW INST ENVIRONM PROTECT ENGN WROCLAW POLAND IN: PAWLOWSKI,L. PHYSICOCHEMICAL METHODS FOR WATER AND WASTEWATER TREATMENT P. 193-203 1980

POND
0054 BARSDATE,R.J., MILLER,M.C., ALEXANDER,V., VESTAL,J.R., HOBBIE,J.E. OIL SPILL EFFECTS (ON TUNDRA POND LIMNOLOGY) $ INST MAR SCI UNIV ALASKA FAIRBANKS AK US/IBP SYNTH SER 13 (LIMNOL TUNDRA PONDS: BARROW ALASKA) P. 388-406, 457-91 1980

POND

0855 BROWN,K.W., DONNELLY,K.C. MUTAGENIC POTENTIAL OF WATER CONCENTRATES FROM THE EFFLUENT OF A WASTE OIL STORAGE POND $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (4) P. 424-429 1982

POND,S.G

1121 BEECH,P.G., BETTS,D.A., HUM,S., POND,S.G. WEST COAST OIL SPILL COUNTERMEASURES STUDY YEAR II $ ENVIRONMENTAL PROTECTION SERVICE PACIFIC COAST REGION 1982

PONDS

0673 RIPMEESTER,J.A., SIRIANNI,A.F. RECOVERY OF WATER AND BITUMEN FROM THE ATHABASCA OIL SAND TAILINGS PONDS $ NATL RES COUNCIL CANADA UNT JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (1) P. 131-133 1981

PUPP,W

0652 PUPP,W. CONCERNING THE BACTERIAL TOXICITY OF MINERAL OIL FRACTIONS AND HYDRO-CARBONS $ BAYER LANDESANSTALT F WASSERFORSCH MUENCHEN GER 0 (0) P. 301-312 1978

POPULATION

0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., CUSSON,K., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

POPULATIONS

0370 HYLAND,J.L., SCHNEIDER,E.D. PETROLEUM HYDROCARBONS AND THEIR EFFECTS ON MARINE ORGANISMS POPULATIONS COMMUNITIES AND ECOSYSTEMS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-80-195423 43P. 1979

0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

0870 CLARK,R.B. THE LONG-TERM EFFECT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS SOME QUESTIONS $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 185-192 1982

POPULATIONS

0871 CLARK,R.B. THE IMPACT OF OIL POLLUTION ON MARINE POPULATIONS COMMUNITIES AND ECOSYSTEMS A SUMMING -UP $ UNIV NEWCASTLE UPON TYNE DEPT ZOOL NEWCASTLE TYNE AND WEAR ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 433-443 1982

0879 DUNNET,G.M. OIL POLLUTION AND SEABIRD POPULATIONS $ UNIV ABERDEEN DEPT ZOOL ABERDEEN SCOTLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 413-427 1982

0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

0905 HANSEN,D.J. THE RELATIVE SENSITIVITY OF SEA BIRD POPULATIONS IN ALASKA USA TO OIL SPILLS $ ALASKA OCS OFFICE BUREAU LAND MANAGEMENT ANCHORAGE ALASKA PROCEEDINGS OF THE 23RD ALASKA SCIENCE MEETING FAIRBANKS ALASKA USA 32 (0) P. 96-97 1981

PORT

0176 CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA CARGO FIRE HAZARDS AND HAZARD CONTROL FOR THE SUPPLEMENT FUEL SUPPLY ASSEMBLY (SFSA) $ 44P. 1980

0191 COOK,R.C., MARINO,K.L., COOPER,R.B. A SIMULATOR STUDY OF DEEPWATER PORT SHIPHANDLING AND NAVIGATION PROBLEMS IN POOR VISIBILITY $ COAST GUARD WASHINGTON, D.C. AD-A100-656/8 190P. 1981

0341 HAYES,M.O., GUNDLACH,E.R., GETTER,C.D. SENSITIVITY RANKING OF ENERGY PORT SHORELINES $ UNIV OF SC COLUMBIA PORTS '80 SPEC CONF NORFOLK VA P. 697-709 1980

0460 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST WATER PORT FACILITIES STUDY APPENDIX A WESTERN GULF HYDROBIOLOGICAL ZONES $ AD-A091-404/4 154P. 1973

0461 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX D ADVERSE ENVIRONMENTAL EFFECTS $ AD-A091-406/9 96P. 1973

0462 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX B NORTH CENTRAL GULF HYDROBIOLOGICAL ZONES $ AD-A091-405/1 99P. 1973

0463 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY ENVIRONMENTAL ASSESSMENT $ AD-A091-403/6 94P. 1973

0493 MARCUS,H.S., DEWHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

PORT

0864 BURNS,K.A., SMITH,J.L. HYDROCARBONS IN VICTORIAN COASTAL ECOSYSTEMS (AUSTRALIA) - CHRONIC PETROLEUM INPUTS TO WESTERN PORT AND PORT-PHILLIP BAYS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (2) P. 129-140 1982

PORT-PHILLIP

0864 BURNS,K.A., SMITH,J.L. HYDROCARBONS IN VICTORIAN COASTAL ECOSYSTEMS (AUSTRALIA) - CHRONIC PETROLEUM INPUTS TO WESTERN PORT AND PORT-PHILLIP BAYS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (2) P. 129-140 1982

PORTS

0331 HANN,R.W. JR. OIL POLLUTION STILL A PROBLEM FOR AMERICA'S PORTS $ TEX A AND M UNIV COLLEGE STATION PORTS '80 SPEC CONF NORFOLK VA P. 710-730 1980

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KUSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

PORTSALL

0267 FLOCH,J.Y., DIOURIS,M. EFFECT OF AMOCO-CADIZ OIL SPILL ON PORTSALL (FRANCE) ALGAE: ECOLOGICAL SURVEY ON A VERY POLLUTED AREA $ INST ETUD MAR UNIV BRETAGNE OCCIDENT BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 381-91 1979

POTABLE

0328 HALL,J.D. INVESTIGATION OF CLEANING PROCEDURES FOR CONVERTING PETROLEUM TANKERS TO POTABLE WATER SERVICE $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A105-633/2 50P. 1981

0969 KADOSKI,E. REMOVAL OF HYDROCARBON TASTE AND ODOR FROM POTABLE WATER BY REPLACEABLE CARBON CONTAINING FILTER CARTRIDGES $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A107-878/1 21P. 1981

POTOMAC

0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

POTTER,C
1110 FARLOW,J.S., WILDER,R., POTTER,C. OIL SPILL DEBRIS WHERE TO PUT THE WASTE $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-177454 1980

POUCHELON,A
0653 POUCHELON,A., MEUNIER,J., LANGEVIN,D., CHATENAY,D., CAZABAT,A.M. LOW INTERFACIAL-TENSIONS IN 3 PHASE SYSTEMS OBTAINED WITH OIL-WATER- SURFACTANT MIXTURES $ ECOLE NORM SUPER SPECT HERTZIENNE LAB PARIS FRANCE CHEMICAL PHYSICS LETTERS 76 (2) P. 277-281 1980

POULET,S.A
0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

POWHATAN
0921 LICHTE,H.W., BURST,M., SMITH,G.F. TESIS OF THE SHELL SOCK SKIMMER ABOARD USNS POWHATAN $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OH PB82-220849 92P. 1981

PRACTICES
0355 HUFFMAN,E.J., FALKE,A.M., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

0503 MCCRACKEN,W.F., CHARLTON,T.J., FREESTONE,F.J. OIL POLLUTION PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRON ASSESS COUNC INC NEW BRUNSWICK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 213-216 1979

0780 IRENTACOSTE,N.P., BIERMAN,G.R., CUNNINGHAM,J. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ SCIENCE APPLICATIONS INC MCLEAN VA PB-80-174287 227P. 1980

1111 IRENTACOSTE,N.P., BIERMAN,G.R. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174287 1980

PRAET,M
0627 DUDUT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL $ LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

PRAGUE
0103 BORKMANN,G., DIETRICH,P. INTERNATIONAL IAH SYMPOSIUM ON GROUND-WATER POLLUTION BY OIL HYDROCARBONS HELD AT PRAGUE 5-9 JUNE 1978 $ ZEITSCHRIFT FUR ANGEWANDTE GEOLOGIE 26 (5) P. 274-276 1980

PREDATION
0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

PREDATORS
0623 ORDZIE,C.J., GARGFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

PREDATORY
0890 FOLMAR,L.C., CRADDOCK,D.R., BLACKWELL,J.W., JOYCE,G., HODGINS,H.O. EFFECTS OF PETROLEUM EXPOSURE ON PREDATORY BEHAVIOR OF COHO-SALMON (ONCORHYNCHUS-KISUTCH) $ NATL MAR FISH SERV WASH USA BULL ENVIRON CONTAM TOXICOL 27 (4) P. 458-462 1981

PREDICT
0340 HAUSER,J.N., BAIRD,R. SYSTEM TO PREDICT OFFSHORE DRILLING HAZARDS $ ODOM OFFSHORE SURV INC BATON ROUGE LA PET ENG INT 51 (8) P. 46, 50, 52, 56 1979

PREDICTED
0816 WILSON,A.R. AN EXPERIMENTAL THERMAL CORRECTION FOR PREDICTED OIL FILM THICKNESS IN ELASTOHYDRODYNAMIC CONTACTS $ SHELL RES LTD THORNTON RES CTR CHESTER CHI CHESHIRE ENGL IN: DOWSON,J., TAYLOR,C.M., GODET,M., BERTHE,D. THERMAL EFFECTS IN TRIBOLOGY P. 179-190 1980

PREDICTING
0469 LIU,H., CHENG,A.H.D. MODIFIED FICKIAN MODEL FOR PREDICTING DISPERSION $ UNIV OF MD COLUMBIA ASCE J HYDRAUL DIV 106 (6) P. 1021-1040 1980

0910 HOGAN,W.J., ERMAK,D.L., KOOPMAN,R.P., LUDWIGSON,J. (ED.) PREDICTING THE HAZARDS FROM LARGE SPILLS OF LIQUEFIED-GASEOUS-FUELS $ LAWRENCE LIVERMORE NATL LAB LIVERMORE CA HAZARD WATER SPILLS CONF PROC P. 391-8 1982

1145 ARCHER,S.J. DRIFT INTERACTIVE COMPUTER MODEL FOR PREDICTING OIL SLICK MOVEMENT $ OFFSHORE ENVIRONMENTAL SYSTEMS LTD UK 1980

PREDICTION
0792 VENKATESH,S., SAHOTA,H.S., RIZKALLA,A.S. PREDICTION OF THE MOTION OF OIL SPILLS IN CANADIAN ARCTIC WATERS $ ATMOS ENVIRON SERV DOWNSVIEW ONT CAN PROC - OIL SPILL LOS ANGELES CALIF P. 677-683 1979

PRENATAL
0901 GREGG,C.T., TIETJEN,G., HUTSON,J.Y. PRENATAL TOXICOLOGY OF SHALE-OIL RETORT WATER IN MICE $ UNIV CALIF LOS ALAMOS LOS ALAMOS NATL LAB LOS ALAMOS NM JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 795-804 1981

PREPARATION
0828 ZHU,J.-C. PREPARATION OF A DISPERSER FOR OIL SPILLS $ INST SCI RES MINIS TRANSPORTATION PEOP REP CHINA HUAN CHING K'O HSUEH 1 (5) P. 62-6, 47 1980

PREPAREDNESS
0806 WESTBY,K.A. OIL SPILL PREPAREDNESS AND CONTINGENCY PLANNING FOR THE NORWEGIAN CONTINENTAL SHELF $ PHILLIPS PETR EXPLORAT UK LTD TEESIDE ENGLAND IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 157-174 1981

PREPARING
0418 KUZNETSOV,A., GRITSKOV,V.S., KHOMYAKOV,V.M., KUDINOV,Y. DISPERSION SYSTEM FOR PREPARING OIL-WATER EMULSIONS $ METALLURGIST 23 (7-8) P. 554-556 1979

0455 LINDSTEDT-SIVA,J. PREPARING FOR OIL SPILLS IN THE DELAWARE RIVER ESTUARY $ ATL RICHFIELD CO LOS ANGELES CALIF COASTAL ZONE '80 PROC OF THE SYMP ON COASTAL AND OCEAN MANAGE P. 294-311 1980

0456 LINDSTEDT-SIVA,J. PREPARING FOR OIL SPILLS PLANNING FOR OPTIMUM USE OF LIMITED RESOURCES $ ATLANT RICHFIELD CO LOS ANGELES CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 149-156 1981

PRESANT,B.W
0875 CULLEY,J.L.B., DOW,B.K., PRESANT,B.W., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION $ AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

PREVENT
0305 GIRALT,F., MEDIR,M., MACKAY,D. OIL CONTAMINATION OF THE MEDITERRANEAN AND BEAUFORT SEAS TO CURE TO PREVENT OR TO NEGLECT $ UNIV BARCELONA FAC QUIM TARRAGONA DEPT QUIM TECN TARRAGONA SPAIN AFINIDAD 38 (373) P. 215-219 1981

PREVENTING
1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204032 118P. 1979

PREVENTION
0108 BRIDIE,A.L., WANDERS,TH.H., ZEGVELD,W., VAN DER HEIJDE,H.B. FORMATION PREVENTION AND BREAKING OF SEA WATER IN CRUDE-OIL EMULSIONS 'CHOCOLATE-MOUSSES' $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0235 DEPARTMENT OF ENERGY WASHINGTON, D.C. SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN $ BENDIX CORP KANSAS CITY 57P. 1981

PREVENTION

0307 GUDDIER,J.L., SICLARI,R.J., GARRITY,P.A. FUEL CONSERVATION BY THE APPLICATION OF SPILL PREVENTION AND FAILSAFE ENGINEERING: A GUIDELINE MANUAL $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 332P. 1981

0376 IRELAND,G.F. TANKER SAFETY AND POLLUTION PREVENTION HOW MUCH IS ENOUGH? $ US COAST GUARD WASHINGTON, D.C. PROC - SHIP TECHNOL AND RES (STAR) SYMP 5TH HELD IN CONJUNCTION WITH SNAME SPRING MEET CORONADO CALIF P. 5-19 1980

0474 LUDWIGSON,J.O. (ED) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1979 $ PROC - OIL SPILL CONF LOS ANGELES CALIF 728P. 1979

0487 MANUELL,R.W. OIL SPILL PREVENTION AND CONTROL IN AUSTRALIA $ ESSO AUST LTD SYDNEY NSW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 293-297 1979

0503 MCCRACKEN,W.F., CHARLTON,T.J., FREESTONE,F.J. OIL POLLUTION PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRON ASSESS COUNC INC NEW BRUNSWICK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 213-216 1979

0611 OBERHOLTZER,G.R., ACUFF,J.T. TARGETING SPILL PREVENTION AND CONTROL TRAINING TO THE RESPONSIBLE INDIVIDUAL $ NATL SPILL CONTROL SCH CORPUS CHRISTI TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 201-203 1979

0689 UNTERBERG,W., MOOREHEAD,R.M. GUIDE FOR SPILL PREVENTION CONTROL AND COUNTERMEASURE INSPECTORS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-115296 119P. 1981

0738 SNIDER,W.D., SHEEHAN,D.F., JOHNSON,E.K. OVERVIEW OF CURRENT AND PROPOSED TANK VESSEL SAFETY AND POLLUTION PREVENTION MEASURES $ US COAST GUARD SEATTLE WASH PROC - SHIP TECHNOL AND RES (STAR) SYMP 4TH P. 93-119 1979

0780 TRENTACOSTE,N.P., BIERMAN,G.R., CUNNINGHAM,J. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ SCIENCE APPLICATIONS INC MCLEAN VA PB-80-174287 227P. 1980

0803 WEBER,E.C., BURGESS,W.S. MARYLAND'S EXPERIENCE IN SPILL PREVENTION AND CONTROL $ WATER RESOUR ADM ANNAPOLIS MD PROC MID ATL IND WASTE CONF 12TH BUCKNELL UNIV LEWISBURG PA P. 24-28 1980

0852 BOGDANOV,Y.M., BORISOV,V.V., GROKHOTOV,V.A., NAZUROV,V.A. PREVENTION OF ACCIDENTAL BLOW-OUTS OF A FUEL IN UNDERGROUND RESERVOIRS $ VSES NAUCHNO-ISSLED INST ISPOL'Z GAZA NAR KHOZ MOSCOW USSR (SU) TRANSP KHRANENIE NEFTI NEFTEPROD (2) P. 20-4 1982

0964 PARRUTIE,R.B. (ED.) PROCEEDINGS OIL SPILL CONFERENCE (PREVENTION BEHAVIOR CONTROL CLEANUP) 1981 $ PROC - 1981 OIL SPILL CONF (PREV BEHAV CONTROL CLEANUP) ATLANTA GA 742P. 1981

PREVENTION
1030 CAPROCO CORROSION PREVENTION LTD INVESTIGATION OF THE OVERFLOW AND LOSS OF PETROLEUM FUEL AT STORAGE FACILITIES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-3 OTTAWA ONTARIO 1980

1041 CORROSION SERVICE COMPANY LIMITED EVALUATION AND PREVENTION OF CORROSION LEAKS ON BURIED STORAGE TANKS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-14 OTTAWA ONTARIO 1981

1111 TRENTACOSTE,N.P., BIERMAN,G.R. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174267 1980

1123 ANONYMOUS EXISTING AND PROPOSED PROGRAMS AND MEASURES FOR THE PREVENTION OF DISCHARGES OF OIL OR HAZARDOUS POLLUTING SUBSTANCES FROM ONSHORE AND OFFSHORE FACILITIES $ MINISTRY OF THE ENVIRONMENT OTTAWA ONTARIO 1981

PRIBILOF-ISLANDS
0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

PRINCE-WILLIAM-SOUND
0435 LEE,W.H. BEHAVIOR OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT PRINCE-WILLIAM-SOUND ALASKA $ LOS ALAMOS NATL LAB LOS ALAMOS NM TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY 38 P. 101-102 1981

PRINCETON
0404 KERR,C.L., BARRIENTOS,C.S. WORKSHOP ON THE PHYSICAL BEHAVIOR OF OIL IN THE MARINE ENVIRONMENT HELD AT PRINCETON UNIVERSITY PRINCETON NEW JERSEY ON MAY 8-9 1979 $ NATIONAL WEATHER SERVICE SILVER SPRING MD PB-81-123796 386P. 1979

PROBABILISTIC
0364 HOUGHTON,W.J. LICENSING TOPICAL REPORT: APPLICATION OF PROBABILISTIC RISK ASSESSMENT IN THE SELECTION OF DESIGN BASIS ACCIDENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 50P. 1980

PROBABILITIES
0693 SAMPSON,A.R., SMITH,R.L. ASSESSING RISKS THROUGH THE DETERMINATION OF RARE EVENT PROBABILITIES $ AIR FORCE OFFICE OF SCIENTIFIC RESEARCH BOLLING AFB D.C. AD-A092-192/4 47P. 1980

PROBABILITY
0109 BRIGHT,D.B. WEST COAST OIL SPILLS A PROBABILITY ANALYSIS KEYED TO SOUTHERN CALIFORNIA $ ENVIRON FEASIBILITY STUD LOS ANGELES CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 45-51 1979

PROBLEM

0006 AHO,H., GUERIN,M. OILY DEBRIS DISPOSAL PROBLEM IN MAINE $ DEP OF ENVIRON PROT AUGUSTA ME ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 36-61 1980

0331 HANN,R.W. JR. OIL POLLUTION STILL A PROBLEM FOR AMERICA'S PORTS $ TEX A AND M UNIV COLLEGE STATION PORTS '80 SPEC CONF NORFOLK VA P. 710-730 1980

0346 HENRY,M.F. UNDERGROUND LEAKAGE OF HYDROCARBONS AN OVERVIEW OF A POTENTIAL FIRE PROBLEM $ FIRE J (BOSTON) 75 (2) P. 91-94 1981

0762 TALISMAN,L.V., SEMENOVA,I.N. PROBLEM OF THE INTRODUCTION OF WATER-GASOLINE EMULSIONS $ VSES NAUCHNO-ISSLED INST NEFT PROM MOSCOW USSR KHIM TEKHNOL TOPL MASEL (8) P. 27-30 1980

PROCESS

0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

0339 HAUER,E. BIAS-BY-SELECTION: OVERESTIMATION OF THE EFFECTIVENESS OF SAFETY COUNTERMEASURES CAUSED BY THE PROCESS OF SELECTION FOR TREATMENT $ UNIV OF TORONTO ONT ACCID ANAL PREV 12 (2) P. 113-117 1980

0439 LEENHEER,J.A., STUBER,H.A. MIGRATION THROUGH SOIL OF ORGANIC SOLUTES IN AN OIL-SHALE PROCESS WATER $ US GEOL SURVEY DENVER FED CTR DENVER CO ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (12) P. 1467-1475 1981

0476 LYSYJ,I., RUSHWORTH,R., MELVOLD,R., FARLOW,J. EFFECTIVENESS OF A LARGE-SCALE BALLAST TREATMENT PROCESS $ ROCKWELL INT NEWBURY PARK CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 133-137 1979

1003 LEENHEER,J.A., STUBER,H.A., NOYES,T.I. CHEMICAL AND PHYSICAL INTERACTIONS OF AN IN SITU OIL-SHALE PROCESS WATER WITH A SURFACE SOIL $ US GEOL SURV DENVER COLO OIL SHALE SYMP PROC 14TH GOLDEN COLO P. 357-375 1981

PROCESSES

0147 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME II: RECEPTORS MICROBIOLOGY ECOLOGICAL PROCESSES $ PB-81-196271 521P. 1980

0330 HANN,R.W. JR. UNIT OPERATIONS UNIT PROCESSES AND LEVEL OF RESOURCE REQUIREMENTS FOR THE CLEANUP OF THE OIL SPILL FROM THE SUPERTANKER AMOCO-CADIZ $ TEX A AND M UNIV COLLEGE STATION PROC - OIL SPILL CONF LOS ANGELES CALIF P. 147-161 1979

PROCESSES
0433 LEE,R.F. PROCESSES AFFECTING THE FATE OF OIL IN THE SEA $ SKIDAWAY INST OCEANOGR SAVANNAH GA ELSEVIER OCEANOGR SER (AMSTERDAM) 27A NO. (MAR ENVIRON POLLUT VI HYDROCARBONS) P. 337-51, 531-68 1980

0472 LONG,E.R. PHYSICAL PROCESSES AND CRITICAL BIOLOGICAL AREAS IN THE VICINITY OF A PROPOSED PETROLEUM TRANSFER FACILITY $ NOAA SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S P. 489-497 1980

0801 WARD,D.M. DEGRADATION PROCESSES OF HYDROCARBONS $ DEP MICROBIOL MONTANA STATE UNIV BOZEMAN MT AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 217-22 1979

0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MURITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

1035 MACKAY,D., BUIST,I., MASCARENHAS,R., PATERSON,S. OIL SPILL PROCESSES AND MODELS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-8 OTTAWA ONTARIO 1980

PRODUCTIVITY
0405 KINAKO,P.D.S. SHORT-TERM EFFECTS OF OIL POLLUTION ON SPECIES NUMBERS AND PRODUCTIVITY OF A SIMPLE TERRESTRIAL ECOSYSTEM $ UNIV PORT HARCOURT SCH BIOL SCI PORT HARCOURT ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 87-91 1981

0875 CULLEY,J.L.B., DOW,B.K., PRESANT,B.A., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION $ AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

PROGRAMMING
0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

PROHASKA,P.G
0114 BROWN,D.W., FRIEDMAN,A.J., PROHASKA,P.G., MACLEOD,W.D. JR. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND PART II (SECOND-YEAR CONTINUATION) $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-82-104290 46P. 1981

PROMOTERS
0763 IAM,W.K., PURVES,W.F. EXPERIMENTAL EVALUATION OF OIL SPILL COMBUSTION PROMOTERS $ ARCTEC CAN LTD KANATA ONT P. 415-421 1980

PROPANE

0292 GEFFEN,C.A. ASSESSMENT OF THE RISK OF TRANSPORTING PROPANE BY TRUCK AND TRAIN $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 211P. 1980

0293 GEFFEN,C.A., FRANKLIN,A.L. ASSESSMENT OF THE RISK OF TRANSPORTING PROPANE BY TRUCK AND TRAIN $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 17P. 1979

PROPANE-AIR

0060 BELASH,V.D., FEDOTOV,M.N. FORMATION OF LOCAL EXPLOSION HAZARDOUS PROPANE-AIR MIXTURES $ LENINGR FILIAL USES NAUCHNO-ISSLED INST PROTIVOPOZHARNO OBORNY LENINGRAD GAZOV PROM-ST (8) P. 55-7 1980

PROPERTIES

0177 CLAUSSE,M., BONED,C., PEYRELASSE,J., LAGOURETTE,B., MCCLEAN,V., SHEPPARD,R.J. DIELECTRIC AND CONDUCTIVE PROPERTIES OF WATER-IN-OIL TYPE MICRO-EMULSIONS $ UNIV PAU AND PAYS ADOUR INST RECH SCI DEPT PHYS THERMODYNAM LAB PAU FRANCE IN: SHAH,D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 199-228 1981

0214 DEPRAETERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

0220 DIDENKO,V.S. RHEOLOGICAL PROPERTIES OF WATER-OIL EMULSIONS TRANSPORTED IN PIPELINES $ NEFTYANOE KHOZYAISTVO (12) P. 53-56 1980

0308 GORSLINE,J., HOLMES,W.N., CRONSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

0347 HERMANN,M., CHAUDE,O., WEILL,N., BEDOUELLE,H., HOFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

0412 KOROLYOV,A.M., SYOMINA,T.K., NAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ MV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

0415 KUCHERENKO,L.A., KAMYSHOVA,V.K. DEPENDENCE OF THE TOXIC AND PROTECTIVE PROPERTIES OF SHALE-OILS ON THEIR CONTENTS OF WATER SOLUBLE PHENOLS $ MV LOMONOSOV STATE UNIV MOSCOW JOURNAL OF APPLIED CHEMISTRY OF THE USSR 54 (1) P. 112-114 1981

PROPERTIES

0475 LUND,G., HOLT,S.L. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

0526 MUKATANOV,A.K., RIVKIN,P.R. INFLUENCE OF PETROLEUM ON SOIL PROPERTIES $ NEFTYANOE KHOZYAISTVO (4) P. 53-54 1980

0600 NEUSTADTER,E., WHITTINGHAM,K.P., GRAHAM,D.E. INTERFACIAL RHEOLOGICAL PROPERTIES OF CRUDE-OIL-WATER SYSTEMS $ PB RES CTR DIV NEW TECHNOL SUNBURY THAMES MIDDLESEX ENGLAND IN: SHAH, D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 307-326 1981

0659 RAJESHWAR,K., DUBOW,J., THAPAR,R. RADIO-FREQUENCY ELECTRICAL PROPERTIES OF GREEN RIVER OIL-SHALES $ COLORADO STATE UNIV DEPT ELECT ENGN FT COLLINS CO CANADIAN JOURNAL OF EARTH SCIENCES 17 (9) P. 1315-1321 1980

0703 SCHWENK,W. CORROSION CHEMICAL REQUIREMENTS ON THE PROPERTIES OF PIPELINE COATINGS $ MANNESMANN FORSCHUNGSINST GMBH DUISBURG FED REP GER 3 (DREI) P ROHRE ROHRLEITUNGSBAU ROHRLEITUNGSTRANSP 19 (10) P. 586-93 1980

0717 SHEVELYAKOV,V.V., SIDENKO,A.T. SENSITIZING AND STIMULATING PROPERTIES OF THE COMPOUND LUBRICANT NO. 76 $ USSR NAUCH-TEKHN PROGRESS I OKHRANA TRUDA ZHENSHCHIN V OSNOV OTR ASLYAKH KHIM PROM-STI MINSK P. 142-4 1980

0731 SMIRNOVA,A.V., PLOTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

0753 SUCH,C., LE ROUX,C. TREATMENT OF OIL RESIDUES FROM OIL SPILLS TREATMENT METHODS AND MECHANICAL PROPERTIES $ TRAITEMENT DES DECHETS PETROLIERS ISSUS DE MAREE NOIRE METHODES DE TRAITEMENT ET CARACTERISTIQUES MECANIQUES LAB CENT DES PONTS ET CHAUSSEES FR LAB CENT PONTS CHAUSSEES BULL LIAISON LAB PONTS CHAUSSEES (1210) P. 89-100 1980

0798 VISSER,H. TELEDETECTION OF THE THICKNESS OF OIL FILMS ON POLLUTED WATER BASED ON THE OIL FLUORESCENCE PROPERTIES $ IND DELFT NETH APPL OPT 18 (11) P. 1746-1749 1979

0900 GREENLEY,W.B., BARTA,W.D., EDDINGER,R.T. LITERATURE REVIEW OF TOXICOLOGICAL PROPERTIES OF PETROLEUM AND COAL-DERIVED OIL PRODUCTS $ UNIV DELAWARE NEWARK DE FUEL PROCESSING TECHNOLOGY 6 (1) P. 9-25 1982

0963 PAPIRER,E., BOURGEOIS,C., SIFFERT,B., BALARD,H. CHEMICAL NATURE AND WATER OIL EMULSIFYING PROPERTIES OF ASPHALTENES $ CTR RECH PHYS CHIM SURFACES SOLIDES MULHOUSE FRANCE FUEL 61 (8) P. 732-734 1982

PROPERTIES
1032 TWARDUS,E.M. A STUDY TO EVALUATE THE COMBUSTIBILITY AND OTHER PHYSICAL AND CHEMICAL PROPERTIES OF AGED OILS AND EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-5 OTTAWA ONTARIO 1980

1040 MACKAY,D., PATERSON,S. THE PHYSICAL PROPERTIES OF FRESH AND WEATHERED CRUDE-OILS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-13 OTTAWA ONTARIO 1980

PROPERTY
0349 HEWITT,J.D., RODGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 9P. 1980

PROTECTION
0046 BAKEMAN,P.E. JR., ARMSTRONG,A.L. SYSTEMS APPROACH TO BEACH PROTECTION FOR OIL SPILL INCIDENTS PHASE I. FEASIBILITY STUDY $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OHIO PB-80-198997 56P. 1975

0156 BYRDADE,J.D., TWEDELL,A.M., LEBOFF,J.P. HANDBOOK FOR OIL SPILL PROTECTION AND CLEANUP PRIORITIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-183394 145P. 1981

0245 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. EMERGENCY SPILLS RESEARCH STRATEGY 1980-1984 $ PB-81-206229 25P. 1980

0246 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. ENVIRONMENTAL IMPACT GUIDELINES FOR NEW SOURCE PETROLEUM REFINERIES $ PB-82-123514 128P. 1981

0247 ENVIRONMENTAL PROTECTION AGENCY SEATTLE WA ALASKA PETROCHEMICAL COMPANY REFINERY AND PETROCHEMICAL FACILITY VALDEZ ALASKA $ PB-81-117038 349P. 1980

0248 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. A SMALL OIL SPILL AT WEST FALMOUTH $ PB-80-170111 33P. 1979

0413 KREINHEDER,J.R. COASTAL PROTECTION FUNDS: A COMPARATIVE ANALYSIS OF STATE AND FEDERAL OIL SPILL LAWS AND LEGISLATION $ ALASKA STATE LEGISLATURE HOUSE RESEARCH AGENCY JUNEAU PB-81-194581 62P. 1981

0734 SMITH,G.W., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-163743 365P. 1981

0856 BREUEL,A. (ED.) OIL SPILL CLEANUP AND PROTECTION TECHNIQUES FOR SHORELINES AND MARSH LANDS $ POLLUT TECHNOL REV (78) 404P. 1981

0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

PROTECTION
1013 ENVIRONMENTAL PROTECTION SERVICE AN EVALUATION OF OIL SKIMMERS AND PUMPS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-4 OTTAWA ONTARIO 1981

1073 ENVIRONMENTAL PROTECTION AGENCY PROJECT INFORMATION SHEETS FOR OIL SPILLS RESEARCH $ EDISON NJ 1980

1103 SMITH,G.F., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1981

PROTEIN
0309 GOSWANI,A.K. STABILITY OF OIL WATER EMULSIONS USING BINARY-MIXTURES OF PROTEIN AND SURFACTANT AS EMULSIFIERS $ KISHORI RAMAN COLL DEPT CHEM MATHURA INDIA ANNALI DI CHIMICA 69 (7-8) P. 389-397 1979

PROTOTHACA-STAMINEA
0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., BELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

PROTOZOA
0677 ROGERSON,A., BERGER,J. THE EFFECTS OF COLD TEMPERATURES AND CRUDE-OIL ON THE ABUNDANCE AND ACTIVITY OF PROTOZOA IN A GARDEN SOIL $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CANADIAN JOURNAL OF ZOOLOGY 59 (8) P. 1554-1560 1981

0678 ROGERSON,A., BERGER,J. EFFECT OF CRUDE-OIL AND PETROLEUM DEGRADING MICROORGANISMS ON THE GROWTH OF FRESH-WATER AND SOIL PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO JOURNAL OF GENERAL MICROBIOLOGY 124 P. 53-59 1981

PROVIDENCE
0355 HOFFMAN,E.J., FALKE,A.M., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

PROVOST,L.P

0654 PROVOST,L.P., WETHEROLD,R.G., HARRIS,G.E., HOOPER,M.W., PHILLIPS,W.R. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 4 APPENDICES C, D AND E $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-103830 529P. 1980

PRUDHOE-BAY

0036 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATION ON SEDIMENT WORKING RATES OF ABARENICOLA-PACIFICA $ BATTELLE PACIFIC NW LAB MARINE RES LAB SEQUIM WA MARINE ENVIRONMENTAL RESEARCH 3 (4) P. 307-313 1980

0037 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE OIL IN SEDIMENT ON ABARENICOLA-PACIFICA IN LABORATORY AND FIELD EXPERIMENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1980

0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PROC /9: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

0151 BURGER,E.D., CHURN,L.G., PERKINS,T.K. STUDIES OF DRAG REDUCTION CONDUCTED OVER A BROAD RANGE OF PIPELINE CONDITIONS WHEN FLOWING PRUDHOE-BAY CRUDE-OIL $ ARCO OIL AND GAS CO DALLAS TX JOURNAL OF RHEOLOGY 24 (5) P. 603-626 1980

0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BOECKOSIMUS-(HONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

0672 RILEY,R.G., THOMAS,B.L., ANDERSON,J.W., BEAN,R.M. CHANGES IN THE VOLATILE HYDROCARBON CONTENT OF PRUDHOE-BAY CRUDE-OIL TREATED UNDER DIFFERENT SIMULATED WEATHERING CONDITIONS $ BATTELLE PAC NORTHWEST LAB RICHLAND WA MAR ENVIRON RES 4 (2) P. 109-19 1980

0791 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P. RESEARCH TO INVESTIGATE EFFECTS FROM PRUDHOE-BAY CRUDE-OIL ON INTERTIDAL INFAUNA OF THE STRAIT OF JUAN-DE-FUCA FIRST ANNUAL REPORT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-80-160955 46P. 1979

PRUDHOE-BAY
0881 ELLENTON,J.A., HALLETT,D.J. MUTAGENICITY AND CHEMICAL ANALYSIS OF ALIPHATIC AND AROMATIC FRACTIONS OF PRUDHOE-BAY CRUDE-OIL AND FUEL-OIL-NO-2 $ DEPT ENVIRONM DIV WILDLIFE TOXICOL NATL WILDLIFE RES CTR OTTAWA CANADA JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 959-972 1981

0886 FLEMING,W.J., SILEO,L., FRANSON,J.C. TOXICITY OF PRUDHOE-BAY CRUDE-OIL TO SANDHILL CRANES $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD JOURNAL OF WILDLIFE MANAGEMENT 46 (2) P. 474-478 1982

0889 FOGHT,J.M., WESTLAKE,D.W.S. EFFECT OF THE DISPERSANT COREXIT-9527 ON THE MICROBIAL DEGRADATION OF PRUDHOE-BAY OIL $ UNIV ALBERTA DEPT MICROBIOL EDMONTON ALBERTA CANADA CANADIAN JOURNAL OF MICROBIOLOGY 28 (1) P. 117-122 1982

0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

1018 FOY,M.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-3 OTTAWA ONTARIO 1982

PRUELL,R.J
0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

PSAMMOLITTORAL
0278 FRICKE,A.H., HENNIG,H., ORREN,M.J. RELATIONSHIP BETWEEN OIL POLLUTION AND PSAMMOLITTORAL MEIOFAUNA DENSITY OF 2 SOUTH-AFRICAN BEACHES $ UNIV CAPE TOWN DEPT OF OCEANOG NATL RES INST OCEANOL RONDEBOSCH SOUTH AFRICA MARINE ENVIRONMENTAL RESEARCH 5 (1) P. 59-77 1981

PSARAFTIS,H
0655 PSARAFTIS,H., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ MIT CAMBRIDGE MASS OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 407-414 1980

PSARAFTIS,H.N
0656 PSARAFTIS,H.N., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-223109 9P. 1980

0766 THARAKAN,G.G., PSARAFTIS,H.N. A CRITICAL REVIEW OF OIL SPILL RISK ANALYSIS $ MIT CAMBRIDGE MA IN: IEEE OCEANS 81 CONFERENCE RECORD 1 AND 2 P. 933-938 1981

PSEUDO-PHASE
0475 LUND,G., HOLT,S.L. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

PUERTO-RICO
0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT THE PIPELINES OF PUERTO-RICO INC PETROLEUM PRODUCTS PIPELINE RUPTURE AND FIRE BAYAMON PUERTO-RICO JANUARY 30 1980 $ PB-81-204851 69P. 1980

PUGET-SOUND
0114 BROWN,D.W., FRIEDMAN,A.J., PROHASKA,P.G., MACLEOD,W.D. JR. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND PART II (SECOND-YEAR CONTINUATION) $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-82-104290 46P. 1981

0115 BROWN,D.W., FRIEDMAN,A.J., BURROWS,D.G. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND $ NOAA NATIONAL ANALYTICAL FACILITY SEATTLE WA PB-80-128218 120P. 1979

0257 FEELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

0396 KARPEN,J., GALT,J. MODELING OF OIL MIGRATION IN PUGET-SOUND $ SCI APPL INC RALEIGH NC ANNU COMB CONF OF IEEE (COUNC ON OCEANIC ENG) AND MAR TECHNOL SOC SAN DIEGO 1979

0662 RATH,R.J., MCKENZIE,J.H., CEBRON,E.J., HAMMOND,J.G. PUGET-SOUND TANKER SIZE OPTIMIZATION $ OCEANOGRAPHIC INST OF WASHINGTON SEATTLE AD-A102-496/7 222P. 1981

0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

0750 STORCH,R.L., WENK,E. JR. VESSEL TRAFFIC SAFETY IN PUGET-SOUND $ UNIV OF WASH SEATTLE OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 181-186 1980

0807 WESTLAKE,D.W.S., COOK,F.D. PETROLEUM BIODEGRADATION POTENTIAL OF NORTHERN PUGET-SOUND AND STRAIT OF JUAN-DE-FUCA ENVIRONMENTS $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WASHINGTON PB-81-141137 147P. 1980

PUGLISI,F.A
0908 HEDTKE,S.F., PUGLISI,F.A. SHORT-TERM TOXICITY OF 5 OILS TO 4 FRESH-WATER SPECIES $ US EPA ENVIRONMENTAL RES LAB DULUTH MN ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (4) P. 425-430 1982

PUISIEUX,F

0214 DEPRAETERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

PULMONARY

0642 PEPELKO,W.E., MATTOX,J.K., YANG,Y.Y., MOORE,W. JR. PULMONARY FUNCTION AND PATHOLOGY IN CATS EXPOSED 28 DAYS TO DIESEL EXHAUST $ HEALTH EFFECTS RESEARCH LAB CINCINNATI OHIO PB-81-196578 11P. 1980

0797 VINEGAR,A., CARSON,A.I., PEPELKO,W.E. PULMONARY FUNCTION CHANGES IN CHINESE HAMSTERS EXPOSED SIX MONTHS TO DIESEL EXHAUST $ DEP ENVIRON HEALTH UNIV CINCINNATI OHIO PROC INT SYMP PB-81-13817 P. 749-56 1980

PUMPS

1013 ENVIRONMENTAL PROTECTION SERVICE AN EVALUATION OF OIL SKIMMERS AND PUMPS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-4 OTTAWA ONTARIO 1981

1051 PURVES,W.F. A CATALOGUE OF OIL SPILL UTILITY PUMPS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-24 OTTAWA ONTARIO 1981

PUNCTURE

0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

PURIFICATION

0079 BEZRUDKO,O.V., KRUPA,A.A., MEDVEDEV,M.I., PASHCHENKO,A.A., TARASEVICH,Y. APPLICATION OF HYDROPHOBILIZED PERLITE FOR PURIFICATION OF SURFACE WATERS FROM OIL $ ACAD SCI UKSSR INST COLLOID CHEM AND WATER CHEM KIEV UKSSR UKRAINSKII KHIMICHESKII ZHURNAL 46 (1) P. 51-54 1980

0279 FRIOCOURT,M.P., GOURMELON,Y., BERTHOU,F., CUSSON,R., MARCHAND,M. EFFECTS OF AMOCO-CADIZ ON OYSTER POPULATION OF NORTHERN BRITTANY (FRANCE) CHEMICAL SURVEY ON POLLUTION PURIFICATION AND ADAPTATION $ LAB CHROMATOG FAC MED BREST FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 617-31 1979

0520 MIRONOV,O.G., SHCHEKATURINA,T.L., YANOV,B.G., STEPANETS,L.G. USE OF MUSSELS IN PURIFICATION OF OIL CONTAINING SEA WATERS $ NEFTYANOE KHOZYAISTVO (6) P. 63-65 1981

0627 OUDOT,J., VAN PRAET,M., FERAL,J.P., FUSEY,P., GAILL,F. POISONING AND PURIFICATION OF MARINE INVERTEBRATES FOLLOWING THE AMOCO-CADIZ OIL SPILL $ LAB CRYPTOGAM MUS NATL HIST NAT PARIS FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 655-65 1979

PURNELL,J

0657 PURNELL,J. A DEEPWATER OIL AND GAS TECHNOLOGY ASSESSMENT $ GEOLOGICAL SURVEY RESTON VA PB-81-243032 253P. 1981

PURVES,W

1019 COMFORT,G., PURVES,W. THE BEHAVIOUR OF CRUDE-OIL SPILLED UNDER MULTI-YEAR ICE $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-4 OTTAWA ONTARIO 1982

PURVES,W.F

0188 COMFORT,G., MENON,B., PURVES,W.F. FEASIBILITY OF WATER-SPRAY-BARRIERS AS FIREPROOF OIL SLICK CONTAINMENT DEVICES $ ARCTEC CAN LTD KANATA ONT OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S SEATTLE WASH P. 422-427 1980

0763 TAM,W.K., PURVES,W.F. EXPERIMENTAL EVALJATION OF OIL SPILL COMBUSTION PROMOTERS $ ARCTEC CAN LTD KANATA ONT P. 415-421 1980

1051 PURVES,W.F. A CATALOGUE OF OIL SPILL UTILITY PUMPS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-24 OTTAWA ONTARIO 1981

PUTMAN,A

1136 WAKAMIYA,W., PETTY,S.E., BOIARSKI,A., PUTMAN,A. COMBUSTION OF OILS ON WATER AN EXPERIMENTAL PROGRAM $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 1982

PUTNAM,A.A

0301 GIDEON,D.N., PUTNAM,A.A. DISPERSION HAZARD FOR SPILLS OF LNG ON LAND AND ON WATER $ BATTELLE COLUMBUS LAB OHIO CRYOGENICS 17 (1) P. 9-15 1977

QUANTIFICATION

0274 FRANK,U., STAINKEN,D., GRUENFELD,M. METHODS FOR THE SOURCE IDENTIFICATION AND QUANTIFICATION OF OIL POLLUTION $ EPA EDISON NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 323-331 1979

QUANTIFIED

1050 BURST,M. QUANTIFIED PERFORMANCE TESTING OF THE 20UM BOOM $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-23 OTTAWA ONTARIO 1981

1140 BURST,M. QUANTIFIED PERFORMANCE TESTING OF THE 20UM BOOM $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

QUINN,J.G

0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

0355 HOFFMAN,E.J., FALKE,A.M., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

QUINN,J.G
0356 HOFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

0357 HOFFMAN,E.J., QUINN,J.G. A COMPARISON OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS FROM NANTUCKET SHOALS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231508 12P. 1981

0358 HOFFMAN,E.J., QUINN,J.G. GAS-CHROMATOGRAPHIC ANALYSES OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS AT THE WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231524 7P. 1981

RABALAIS,N.N
0265 FLINT,R.W., RABALAIS,N.N. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975-1977 VOLUME I ECOSYSTEM DESCRIPTION $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-181506 358P. 1980

0266 FLINT,R.W., RABALAIS,N.N. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975-1977 VOLUME III STUDY AREA FINAL REPORTS $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-181522 650P. 1980

RABIN,K.S
0885 FARRINGTON,J.W., DAVIS,A.C., FREW,N.M., RABIN,K.S. NO-2-FUEL-OIL COMPOUNDS IN MYTILUS-EDULIS RETENTION AND RELEASE AFTER AN OIL SPILL $ WOODS HOLE OCEANOG INST DEPT CHEM WOODS HOLE MA MARINE BIOLOGY 66 (1) P. 15-26 1982

RADAR
0913 JOHNSON,J.W., CROSWELL,W.F. CHARACTERISTICS OF 13.9 GHZ RADAR SCATTERING FROM OIL FILMS ON THE SEA SURFACE $ NASA LANGLEY RES CTR HAMPTON VA RADIO SCIENCE 17 (3) P. 611-617 1982

0914 KALMYKOV,A.I., PICHUGIN,A.P. SPECIAL FEATURES OF THE DETECTION OF SEA SURFACE INHOMOGENEITIES BY THE RADAR METHODS $ OSOBENNOSTI OBNARUZHENIYA NEODNORODNOSTEI MORSKOI POVERKHNOSTI RADIOLOKATSIONNYM METODOM ACAD OF SCI OF THE UKR SSR INST OF RADIOPHYS AND ELECTRON KIEV IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 754-761 1981

0971 RAWSON,R.F., LISKOW,C.L. RADAR REFLECTIVITY MEASUREMENTS OF OCEAN SURFACE WITH AND WITHOUT A SURFACE COAT OF OIL $ ENVIRON RES INST OF MICH ANN ARBOR USA DIG - INT GEOSCI AND REMOTE SENS SUMP (IGARSS'81) 2 P. 1268-1273 1981

RADIATION
0614 OFFICE OF RADIATION PROGRAMS WASHINGTON, D.C. THE CONSEQUENCES AND FREQUENCY OF SELECTED MAN ORIENTED ACCIDENT EVENTS $ PB-80-211303 233P. 1980

RADIATION
0836 AKST,K.H.Y., KARO,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

RADIO-EMISSION
0077 BESPALOVA,E.A., MILITSKIY,Y.A., POKROVSKAYA,I.V., MIROVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (10) P. 54-58 1978

RADIO-FREQUENCY
0659 RAJESHWAR,K., DUBOW,J., THAPAR,R. RADIO-FREQUENCY ELECTRICAL PROPERTIES OF GREEN RIVER OIL-SHALES $ COLORADO STATE UNIV DEPT ELECT ENGN FT COLLINS CO CANADIAN JOURNAL OF EARTH SCIENCES 17 (9) P. 1315-1321 1980

RADUSKI,E
0969 RADOSKI,E. REMOVAL OF HYDROCARBON TASTE AND ODOR FROM POTABLE WATER BY REPLACEABLE CARBON CONTAINING FILTER CARTRIDGES $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A107-878/1 21P. 1981

RAEV,M.D
0077 BESPALOVA,E.A., MILITSKIY,Y.A., POKROVSKAYA,I.V., MIROVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (10) P. 54-58 1978

RAFFIN,J.P
0970 RAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., MEUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

RAGUENES,G
0441 LEGLISE,M., RAGUENES,G. SURVEY ON EFFECTS OF AMOCO-CADIZ OIL SPILL ON EDIBLE CRUSTACEANS IN POLLUTED AREAS $ INST SCI TECH PECHES MARITIMES NANTES FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 775-87 1979

RAHIMTULA,A
0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BRUNGS,W.A., CUMMING,R.B. WATER CHLORINATION 3 P. 845-850 1980

RAILROAD
0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

0582 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1979 $ PB-81-108615 122P. 1980

RAINBOW-TROUT
0244 ENGELHARDT,F.R., WONG,M.P., DJEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

RAJ,P.K
0028 ARAVAMUDAN,K., RAJ,P.K., NEWMAN,E., TUCKER,W.A. BREAK-UP OF OIL ON ROUGH SEAS SIMPLIFIED MODELS AND STEP-BY-STEP CALCULATIONS $ COAST GUARD WASHINGTON, D.C. AD-A084-240/1 210P. 1979

RAJ,P.P.K
0635 PARNAROUSKIS,M.C., TAYLOR,M.W., LIND,C.D., RAJ,P.P.K., CECE,J.M. VAPOR CLOUD EXPLOSION STUDY $ US COAST GUARD WASHINGTON, D.C. CONGR INT SUR LE GAZ NAT LIQUEFIE 6TH 2 16P. 1980

0658 RAJ,P.P.K., MOUSSA,A.N., ARAVAMUDAN,K. EXPERIMENTS INVOLVING POOL AND VAPOR FIRES FROM SPILLS OF LIQUEFIED-NATURAL-GAS ON WATER $ COAST GUARD WASHINGTON, D.C. AD-A077-073/5 258P. 1979

RAJESHWAR,K
0659 RAJESHWAR,K., DUBOW,J., THAPAR,R. RADIO-FREQUENCY ELECTRICAL PROPERTIES OF GREEN RIVER OIL-SHALES $ COLORADO STATE UNIV DEPT ELECT ENGN FT COLLINS CO CANADIAN JOURNAL OF EARTH SCIENCES 17 (9) P. 1315-1321 1980

RAMAN
0359 HUGE,F.E., SWIFT,R.N. OIL FILM THICKNESS MEASUREMENT USING AIRBORNE LASER INDUCED WATER RAMAN BACKSCATTER $ NASA WALLOPS FLIGHT CENT WALLOPS ISL VA APPL OPT 19 (19) P. 3269-3281 1980

RANCOURT,J.D
0051 BANNISTER,W.W., RANCOURT,J.D., CURRY,W.A. AMINE-CARBAMATE GELLING-AGENTS FOR FACILITATING OIL SPILL RECOVERY AND CONTROL $ DEP CHEM UNIV LOWELL LOWELL MA MAR TECHNOL 80 (EIGHTY) ANNU CONF MAR TECHNOL SOC 16TH P. 146-9 1980

RANDALL,B.M
0660 RANDALL,R.M., RANDALL,B.M., BEVAN,J. OIL POLLUTION AND PENGUINS IS CLEANING JUSTIFIED $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (8) P. 234-237 1980

RANDALL,R.M

0660 RANDALL,R.M., RANDALL,B.M., BEVAN,J. OIL POLLUTION AND PENGUINS IS CLEANING JUSTIFIED $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (8) P. 234-237 1980

RANGER

0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

RAO,T.K

0354 HU,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., RAO,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

0661 RAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HU,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

RATH,R.J

0662 RATH,R.J., MCKENZIE,J.H., CEBRON,E.J., HAMMOND,J.G. PUGET-SOUND TANKER SIZE OPTIMIZATION $ OCEANOGRAPHIC INST OF WASHINGTON SEATTLE AD-A102-495/7 222P. 1981

RAUSCH,A.B

0728 SKAALEN,C.I., RAUSCH,A.B. ENGINEERING EVALUATION OF SORBENT DISPENSING/COLLECTION SYSTEM UNIVERSAL MOUNTING ARRANGEMENT $ CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA AD-A078-431/4 46P. 1979

RAVENNA,K.C

0663 RAVENNA,K.C. COLLISION-AVOIDANCE SYSTEMS THE EVOLUTION CONTINUES $ SPERRY MAR SYST SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 193-197 1980

RAWSON,R.F

0971 RAWSON,R.F., LISKOW,C.L. RADAR REFLECTIVITY MEASUREMENTS OF OCEAN SURFACE WITH AND WITHOUT A SURFACE COAT OF OIL $ ENVIRON RES INST OF MICH ANN ARBOR USA DIG - INT GEOSCI AND REMOTE SENS SUMP (IGARSS'81) 2 P. 1268-1273 1981

RAYNER,D.M

0621 O'NEIL,R.A., BUJA-BIJUNAS,L., RAYNER,D.M. FIELD PERFORMANCE OF A LASER-FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ DEP OF ENERGY MINES AND RESOUR OTTAWA APPL OPT 19 (6) P. 863-870 1980

1005 RAYNER,D.M. EFFECT OF SURFACE TEMPERATURE ON THE REMOTE-SENSING OF OIL USING LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-2 OTTAWA ONTARIO 1980

RAYNER,D.M
1006 RAYNER,D.M. THIN OIL FILM DETECTION LIMITS OF LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-3 OTTAWA ONTARIO 1980

1094 O'NEIL,L.B., RAYNER,D.M. FIELD PERFORMANCE OF A LASER FLUOROSENSOR FOR THE DETECTION OF OIL SPILLS $ REPRINT FROM APPLIED OPTICS 19 (6) P. 863-70 1980

RE-EVALUATION
0628 OWENS,E.H., RUBILLIARD,G.A. SHORELINE SENSITIVITY AND OIL SPILLS A RE-EVALUATION FOR THE 1980'S $ MARINE POLLUTION BULLETIN 12 (3) P. 75-78 1981

REACTOR
0381 JAPAN ATOMIC ENERGY RESEARCH INST TOKYO SAFETY ANALYSIS OF FUEL CIRCULATING SYSTEM FOR TOKAMAK EXPERIMENTAL FUSION REACTOR $ 161P. 1978

RECEPTION
0493 MARCUS,H.S., DENHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

RECLAMATION
0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

RECOGNITION
0419 KWAN,P.W., CLARK,R.C. ASSESSMENT OF OIL CONTAMINATION IN THE MARINE ENVIRONMENT BY PATTERN RECOGNITION ANALYSIS OF PARAFFINIC HYDROCARBON CONTENT OF MUSSELS $ DEPT CHEM CHEMOMETR LAB SEATTLE WASHINGTON ANALYTICA CHIMICA ACTA-COMPUTER TECHNIQUES AND OPTIMIZATION 5 (2) P. 151-168 1981

RECOVERING
0602 NOBUNAGA,H. ANTI-OCEAN-POLLUTION EQUIPMENT AND SHIPS FOR RECOVERING SPILT OIL $ WORKSHIP DES DEP ISHIKAWAJIMA-HARIMA HEAVY IND CO LTD TOKYO JAPAN NENRYO DYOBI NENSHU 47 (8) P. 651-68 1980

0922 LOCK,J. POSSIBILITIES FOR RECOVERING SPILLED OIL $ LONDON UK CHEM RUNDSCH 34 (20) P. 3, 9, 13 1981

RECOVERY
0011 ALLEN,A.A. CONTAINMENT AND RECOVERY TECHNIQUES FOR COLD WEATHER INLAND OIL SPILLS $ CROWLEY ENVIRON SERV CORP ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 345-353 1979

0043 BAGNULO,L. RECOVERY SYSTEMS FOR DISPERSED OIL PRODUCTS $ SOC REMCO ITALY AES 2 (2) P. 53-5 1980

RECOVERY

0051 BANNISTER,W.W., RANCOURT,J.D., CURRY,W.A. AMINE-CARBAMATE GELLING-AGENTS FOR FACILITATING OIL SPILL RECOVERY AND CONTROL $ DEP CHEM UNIV LOWELL LOWELL MA MAR TECHNOL 80 (EIGHTY) ANNU CONF MAR TECHNOL SOC 16TH P. 146-9 1980

0059 BECK,K., ABUBA,B., MILLER,D., KAKLINS,I. MONITORING TO DETECT GROUNDWATER PROBLEMS RESULTING FROM ENHANCED OIL RECOVERY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-119074 146P. 1981

0252 FASGADAIR - BP TAKES DELIVERY OF ITS INSHORE OIL RECOVERY AND POLLUTION CONTROL VESSEL AFTER CONVERSION AT CLYDEDOCK ENGINEERING GLASGOW $ NAVAL ARCHITECT (3) P. 111-113 1981

0290 TSANG,G., RECOVERY OF OIL SPILLED UNDER RIVER ICE COVER $ NATL WATER RES INST BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 387-396 1979

0345 HENNING,H.F.K.O., FRICKE,A.H. RECOVERY POTENTIAL AND CHRONIC OIL POLLUTION ON THE SOUTH-AFRICAN COAST $ UNIV CAPE TOWN NATL RES INST OCEANOL DEPT OCEANOG RONDEBOSCH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (10) P. 301-302 1980

0372 ILLINOIS INST OF NATURAL RESOURCES WASHINGTON, D.C. WASTE OIL MANAGEMENT CONFERENCE ROAD TO RECOVERY BC PROCEEDINGS HELD AT AMOCO RESEARCH CENTER NAPERVILLE ILLINOIS ON APRIL 3 1980 $ PB-80-224876 134P. 1980

0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

0673 RIPMEESTER,J.A., SIRIANNI,A.F. RECOVERY OF WATER AND BITUMEN FROM THE ATHABASCA OIL SAND TAILINGS PONDS $ NATL RES COUNCIL CANADA ONT JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (1) P. 131-133 1981

0724 SILVESTRO,E., CROCKER,M. TOXICITY OF CHEMICAL COMPOUNDS USED FOR ENHANCED OIL RECOVERY $ ENERGY RESOUR CO INC CAMBRIDGE MA 198P. 1980

0757 SVENDSEN,J.A., FURUHOLT,E.M. INTERACTIVE SIMULATION OF OIL SPILL RECOVERY OPERATIONS $ SHIP RES INST NORWAY TRONDHEIM NORWAY IN: AUNE,A.B., VLIETSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS P. 321-327 1980

0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

RECOVERY
0818 WILSON,T.D. ENVIRONMENTAL REGULATIONS HANDBOOK FOR ENHANCED OIL RECOVERY FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 210P. 1980

0841 BELSKY,J. DIESEL OIL SPILL IN A SUBALPINE MEADOW 9 YEARS OF RECOVERY $ SYRACUSE UNIV DEPT BIOL SYRACUSE NY CANADIAN JOURNAL OF BOTANY 60 (6) P. 906-910 1982

0875 CULLEY,J.L.B., DOW,B.K., PRESANT,B.W., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION $ AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

0962 UVIATT,C., FRITHSEN,J., GEARING,J., GEARING,P. LOW CHRONIC ADDITIONS OF NO-2-FUEL-OIL CHEMICAL BEHAVIOR BIOLOGICAL IMPACT AND RECOVERY IN A SIMULATED ESTUARINE ENVIRONMENT $ UNIV RHODE ISL GRAD SCH OCEANOG MARINE ECOSYST RES LAB KINGSTON RI MARINE ECOLOGY-PROGRESS SERIES 9 (2) P. 121-136 1982

0999 WILSON,H.B. DEVELOPMENT AND TESTING OF A WEIR BOOM FOR OIL RECOVERY AT SEA $ BR PET CO ENGL PET REV 35 (417) P. 36-39 1981

1010 WESTERN CANADA HYDRAULIC LABORATORIES LTD INVESTIGATION OF THE OPERATING PARAMETERS OF THE OIL SPILL CONTAINMENT AND RECOVERY (OSCAR) VESSEL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-5 OTTAWA ONTARIO 1981

1134 LANGFELDT,J.N., WOLD,M. FULL SCALE TESTS WITH OIL RECOVERY SYSTEMS OFFSHORE $ OIL POLLUTION CONTROL - R AND D PROGRAM OSLO NORWAY 1981

1135 ANONYMOUS GUIDANCE NOTES FOR THE CONSTRUCTION AND CLASSIFICATION OF OIL RECOVERY SHIPS $ LLOYD'S REGISTRY OF SHIPPING LONDON 1980

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

REDFIELD,A.E
0057 BECCASIO,A.D., WEISSBERG,G.H., REDFIELD,A.E., FREW,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

REDUCES
0756 SUTER,W.R. AUTOMATIC DIVERTER REDUCES SHALLOW BLOWOUT HAZARD $ WORLD OIL 182 (5) 53P. 1976

REDUCING
0464 LITTLE,A.D. INC CAMBRIDGE MA FEASIBILITY OF METHODS AND SYSTEMS FOR REDUCING LNG TANKER FIRE HAZARDS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 342P. 1980

REDUCING

0552 NATIONAL RESEARCH COUNCIL WASHINGTON, D.C. WORKSHOP ON REDUCING TANKBARGE POLLUTION APRIL 15-16 1980 $ AD-A096-126/8 541P. 1980

0697 SCHENKER,E. REDUCING TANKBARGE POLLUTION $ NATIONAL RESEARCH COUNCIL WASHINGTON, D.C. AD-A102-118/7 79P. 1981

REDUCTION

0151 BURGER,E.D., CHORN,L.G., PERKINS,T.K. STUDIES OF DRAG REDUCTION CONDUCTED OVER A BROAD RANGE OF PIPELINE CONDITIONS WHEN FLOWING PRUDHOE-BAY CRUDE-OIL $ ARCO OIL AND GAS CO DALLAS TX JOURNAL OF RHEOLOGY 24 (5) P. 603-626 1980

0229 DRISCOLL,W.J. PIPELINE AND HAZARDOUS MATERIALS TRANSPORTATION SAFETY AND OIL SPILL REDUCTION $ US DOT WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 23-25 1979

1001 YANG,W.F., CHAO,A., SMALLWOOD,C. JR. LAND TREATMENT OF OILY WASTES REDUCTION OF CRUDE-OIL IN SOILS $ INST ENVIRON ENG NATL TAIWAN UNIV TAIPEI TAIWAN TW PROC IND WASTE CONF 36 P. 8549 1982

REED,M

0972 REED,M. OIL SPILL FATES AND FISHERY IMPACT ESTIMATION $ APPL SCI ASSOCIATES INC WAKEFIELD RI MARINE TECHNOLOGY SOCIETY JOURNAL 15 (4) P. 40-42 1981

REED,W.E

0664 REED,W.E. PIPELINE CORROSION 1964 APRIL 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-810013 221P. 1980

0665 REED,W.E. PIPELINE CORROSION 1977 APRIL 1980 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-810021 243P. 1980

REEF

0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

REFINED

0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

REFINED

0349 HEWITT,J.D., RODGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 9P. 1980

REFINERIES

0246 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. ENVIRONMENTAL IMPACT GUIDELINES FOR NEW SOURCE PETROLEUM REFINERIES $ PB-82-123514 128P. 1981

REFINERY

0020 ANON. ENVIRONMENTAL IMPACT OF REFINERY WASTEWATER $ DIE AUSWIRKUNGEN VON RAFFINERIEABWAESSERN AUF DIE UMWELT ERDOEL KOHLE ERDGAS PETROCHEM VER BRENNST CHEM 33 (5) P. 214-219 1980

0239 DEPARTMENT OF ENERGY WASHINGTON, D.C. REFINERY SITING WORKBOOK: APPENDICES C TO D $ MITTELHAUSER CORP EL TORO CA 642P. 1980

0247 ENVIRONMENTAL PROTECTION AGENCY SEATTLE WA ALASKA PETROCHEMICAL COMPANY REFINERY AND PETROCHEMICAL FACILITY VALDEZ ALASKA $ PB-81-117038 349P. 1980

0408 KNOWLTON,H.E., RUCKER,J.E. REFINERY OILY WASTE TREATMENT AND DISPOSAL TECHNIQUES AND THEIR POTENTIAL APPLICATION TO OIL SPILL DEBRIS $ CHEVRON RES CO RICHMOND CALIF DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP DENVER COLO P. 109-117 1978

1114 BONNIER,P.E. SLUDGE FARMING A TECHNIQUE FOR THE DISPOSAL OF OILY REFINERY WASTES $ CONCAWE 1980

REFINING

0484 KRISHNAN,R., HLAVIN,R. ALTERNATIVES FOR HAZARDOUS WASTE MANAGEMENT IN THE PETROLEUM REFINING INDUSTRY $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-113417 245P. 1979

0654 PROVOST,L.P., WETHEROLD,R.G., HARRIS,G.E., HOUPER,M.W., PHILLIPS,W.R. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 4 APPENDICES C, D AND E $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-103830 529P. 1980

0808 WETHEROLD,R.G., RUSEBROOK,D.D. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 1 TECHNICAL REPORT $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-80-225253 482P. 1980

REFLECTIVITY

0971 KAWSON,R.F., LISKOW,C.L. RADAR REFLECTIVITY MEASUREMENTS OF OCEAN SURFACE WITH AND WITHOUT A SURFACE COAT OF OIL $ ENVIRON RES INST OF MICH ANN ARBOR USA DIG - INT GEOSCI AND REMOTE SENS SUMP (IGARSS'81) 2 P. 1268-1273 1981

REGENERATION
0262 FINGERMAN,S.W. DIFFERENCES IN THE EFFECTS OF FUEL OIL AN OIL DISPERSANT AND THREE POLYCHLORINATED-BIPHENYLS ON FIN REGENERATION IN THE GULF COAST KILLIFISH FUNDULUS-GRANDIS $ TULANE UNIV NEW ORLENAS LA BULL ENVIRON CONTAM TOXICOL 2[illegible] (2) P. 234-240 1980

REGISTRATION
0225 DUYLE,P.F. CARGO TANK REGISTRATION STATISTICS $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-80-217169 424P. 1980

REGULATIONS
0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0818 WILSON,T.D. ENVIRONMENTAL REGULATIONS HANDBOOK FOR ENHANCED OIL RECOVERY FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 210P. 1980

0955 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PLATFORMS: TECHNOLOGY REGULATIONS AND ENVIRONMENTAL EFFECTS 1977-JUNE 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-868361 173P. 1982

REGULATORY
0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0238 DEPARTMENT OF ENERGY WASHINGTON, D.C. SYNTHETIC FUELS AND THE ENVIRONMENT: AN ENVIRONMENTAL AND REGULATORY IMPACTS ANALYSIS $ 652P. 1980

0844 BIDWELL,J.B. OIL SPILL CLEAN-UP: AN ECONOMIC AND REGULATORY MODEL $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB82-147489 30P. 1981

REID,R.C
0170 CHANG,H.R., REID,R.C. SIMULTANEOUS BOILING AND SPREADING OF LIQUEFIED-PETROLEUM-GAS ON WATER FINAL REPORT DECEMBER 12 1978-MARCH 31 1981 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 38P. 1981

REID,S.C
0258 FENNER,R.G., REID,S.C., SOLIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

REIMNITZ,E
0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PROC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

REISH,D.J
0973 REISH,D.J., OSHIDA,P.S., WILKES,F.G., MEARNS,A.J., KUSI,S.S. MARINE ESTUARINE POLLUTION $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB82-126174 28P. 1981

RELIABILITY
0394 KARELL,M. RELIABILITY AND SAFETY ANALYSIS OF ACTIVITY MEASURING SYSTEMS 1 RELIABILITY ANALYSIS OF THE STACK MONITORING SYSTEM 1317A $ AKTIEBOLAGET ATOMENERGI STUDSVIK (SWEDEN) STUDSVIK-IP-78-3 26P. 1978

0795 VETTERKIND,D.W. ACQUISITION AND APPLICATION OF RELIABILITY INFORMATION FOR THE PLANNING AND MAINTENANCE OF NUCLEAR POWER PLANTS $ RHEINISCH-WESTFAELISCHES ELEKTRIZITAETSWERK A.G. ESSEN GERMANY 11P. 1979

REMEDIAL
0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

REMEDY
0869 CHAUHAN,K.J., GUYAL,K.L. HAZARDS AND REMEDY OF OIL SPILLS $ OIL AND NAT GAS COMM DEHRA DUN INDIA PROC OF THE WORLD PET CONGR 10TH 5 P. 31-37 1980

REMOTE-SENSING
0068 BENTZ,A.P. OIL-SPILL IDENTIFICATION AND REMOTE-SENSING $ US COAST GUARD RES AND DEV CENT GROTON CONN ADV CHEM SER 185 PET IN THE MAR ENVIRON SYMP AT THE MEET OF THE ACS P. 55-86 1980

0069 BENTZ,A.P. OIL-SPILL IDENTIFICATION AND REMOTE-SENSING $ US COAST GUARD RES DEV CENT GROTON CT PREPR DIV PET CHEM AM CHEM SOC 23 (3) P. 916-29 1978

0152 BURKHALTER,R., MEYER,C., MASSIN,J.M. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN FRENCH COASTAL WATERS $ LAB NATL ESSAIS PARIS FRANCE IN: COOK,J.J. PROCEEDINGS OF THE FOURTEENTH INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 3 VOLS P. 269-274 1980

0218 DICK,R., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-40 1980

REMOTE-SENSING

0342 HAYES,R.M. OPERATIONAL USE OF REMOTE-SENSING DURING THE CAMPECHE-BAY OIL WELL BLOWOUT $ US COAST GUARD OCEANOGR UNIT WASHINGTON, D.C. PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1187-1196 1980

0368 HUNDEMANN,A.S. REMOTE-SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT 1964-JULY 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-813140 192P. 1980

0486 MANNING,A.R. JR., WHITE,J.R., VOLLMERS,R.R. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN US COASTAL WATERS $ US COAST GUARD PROC INT SYMP REMOTE SENSING ENVIRON 14TH SAN JOSE COSTA RICA P. 249-268 1980

0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YUKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

0811 WHITE,J.R., SCHMIDT,R.E., PLAGE,W.E. AIREYE REMOTE-SENSING SYSTEM FOR OIL SPILL SURVEILLANCE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 301-304 1979

0829 ZOLLARS,G.F. REMOTE-SENSING APPLIED TO POLLUTION MONITORING 1976-JUNE 1980 (CITATIONS FROM THE INTERNATIONAL AEROSPACE ABSTRACTS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-815632 61P. 1980

0874 CROSWELL,W.F., BLUME,H.J.C., JOHNSON,J.W. MICROWAVE REMOTE-SENSING MEASUREMENTS OF OIL POLLUTION OF THE OCEAN $ NASA LANGLEY RES CENT HAMPTON VA DIG - INT GEOSCI AND REMOTE SENS SYMP (IGARSS'81) 2 P. 1246-1251 1981

0940 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA REMOTE-SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT 1964-NOVEMBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-802752 231P. 1981

0984 SORENSEN,B.M., STURM,B., TASSAN,S. SOME RESULTS FROM EXPERIMENTS ON REMOTE-SENSING OF WATER QUALITY AND OIL POLLUTION IN THE MEDITERRANEAN SEA $ COMMISS EUROPEAN COMMUNITIES JOINT RES CTR ISPRA ITALY IN: ENVIRONM RES INST MICHIGAN PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 1 AND 2 P. 417-424 1982

1005 RAYNER,D.M. EFFECT OF SURFACE TEMPERATURE ON THE REMOTE-SENSING OF OIL USING LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-2 OTTAWA ONTARIO 1980

1031 O'NEIL,R.A. A BIBLIOGRAPHY ON THE REMOTE-SENSING OF OIL POLLUTION $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-4 OTTAWA ONTARIO 1980

1052 O'NEIL,R.A., THOMSON,V., NEVILLE,R.A. REMOTE-SENSING OF OIL DURING THE KURDISTAN SPILL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-25 OTTAWA ONTARIO 1981

REMOTE-SENSING
1064 INTERA ENVIRONMENTAL CONSULTANTS LIMITED REMOTE-SENSING ANALYSIS OF THE OIL SPILL DISPERSANT SEA TRIAL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-40 OTTAWA ONTARIO 1982

1102 ANONYMOUS PROCEEDINGS OF THE FIFTEENTH INTERNATIONAL SYMPOSIUM ON REMOTE-SENSING OF ENVIRONMENT VOLUMES I-III $ ENVIRONMENTAL RESEARCH INSTITUTE OF MICHIGAN ANN ARBOR MICHIGAN 1981

RENAULT,P
0092 BUCARD,C., RENAULT,P., CROUETTE,J. CLEANING PRODUCTS USED IN OPERATIONS AFTER THE AMOCO-CADIZ DISASTER $ INST FR DU PET RUEIL MALMAISON FR PROC - OIL SPILL LOS ANGELES CALIF P. 163-167 1979

RENOUX,A
0666 RENOUX,A., BUTOR,J.F., JOUAN,M. EFFECT OF ACCIDENTAL POLLUTION OF THE OCEAN ON MARINE AEROSOL $ FAC SCI CRETEIL UNIV PARIS VAL DE MARNE CRETEIL FRANCE J ENVIRON SCI HEALTH PART A VOL A16 (4) P. 397-404 1981

RENSON,M
0380 JACQUES,J.M., RENSON,M., DELMOTTE,A. THE DEVELOPMENT OF A MODEL FOR BIOLOGICAL CONTROL OF SHALLOW TROPICAL WATERS SUBJECTED TO PETROLEUM THREATS $ NAECON NV DRONGEN BELGIUM IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 727-735 1981

REPAIRING
0670 RICHTER,M., KALLENOWSKY,E. A METHOD SAVING EXCAVATION WORK FOR REPAIRING LEAKS IN LOW PRESSURE GAS PIPELINES $ BRENNSTOFFINST FREIBERG FACHBEREICH LEIPZIG LEIPZIG GER ENERGIETECHNIK 31 (2) P. 58-61 1981

REPRODUCTION
0961 ORMOND,R.F.G., CALDWELL,S. THE EFFECT OF OIL POLLUTION ON THE REPRODUCTION AND FEEDING BEHAVIOR OF THE SEA-ANEMONE ACTINIA-EQUINA $ UNIV YORK DEPT BIOL YORK N YORKSHIRE ENGLAND MARINE POLLUTION BULLETIN 13 (4) P. 118-122 1982

RESERVOIR
0259 FERGUSON,J.D. FORMATION OF DIAGENETIC ALTERATION ZONES BY LEAKING RESERVOIR HYDROCARBONS OVER 3 OIL-FIELDS IN OKLAHOMA $ GULF OIL EXPLORAT AND PROD CO HOUSTON TX AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (5) 924P. 1981

RESERVOIRS
0852 BOGDANOV,Y.M., BORISOV,V.V., GROKHOTOV,V.A., MAZUKOV,V.A. PREVENTION OF ACCIDENTAL BLOW-OUTS OF A FUEL IN UNDERGROUND RESERVOIRS $ VSES NAUCHNU-ISSLED INST ISPOL'Z GAZA NAR KHOZ MOSCOW USSR (SU) TRANSP KHRANENIE NEFTI NEFTEPROD (2) P. 20-4 1982

RESIDENCE
0937 NAESS,A. ON THE RESIDENCE TIME OF OIL MIXED INTO THE WATER COLUMN BY BREAKING WAVES $ NORW HYDRODYN LAB OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 497-508 1981

RESIDENT'S

0620 OMOHUNDRO,J.T. OIL SPILLS: A COASTAL RESIDENT'S HANDBOOK $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-183585 16P. 1980

RESIDUAL

0101 BOLSTER,R.N., LITTLE,R.C. CHEMICAL DEMULSIFICATION OF SEAWATER IN RESIDUAL OIL EMULSIONS $ US NAV RES LAB WASHINGTON, D.C. ENVIRON INT 3 (2) P. 163-170 1980

0391 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 1 NARRATIVE $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-82-117078 322P. 1981

0392 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 2 APPENDICES $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-190944 477P. 1981

0682 ROSAHL,N., ECKNIG,W. GAS-CHROMATOGRAPHIC METHOD FOR DETERMINATION OF RESIDUAL OIL AFTER OIL SEPARATORS IN COMPRESSOR INSTALLATIONS $ VEB KUHLAUTOMAT BERLIN GER CHEMISCHE TECHNIK 32 (11) P 589-593 1980

RESIDUE

1056 GEORGHIOU,P.E. A STUDY OF THE MUTAGENICITY OF RESIDUE RESULTING FROM THE BURNING OF CRUDE-OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-29 OTTAWA ONTARIO 1982

RESIDUES

0008 ALBAIGES,J., CUBERES,M.R. ON THE DEGRADATION OF PETROLEUM RESIDUES IN THE MARINE ENVIRONMENT $ INST BIO-ORG CHEM BARCELONA SPAIN CHEMOSPHERE 9 (9) P. 539-45 1980

0280 FURZER,I.A. DISTRIBUTION OF OIL POLLUTION RESIDUES $ UNIV OF SYDNEY AUST ASCE J ENVIRON ENG DIV 106 (6) P. 1171-1189 1980

0448 LEVY,E.M. BACKGROUND LEVELS OF PETROLEUM RESIDUES IN BAFFIN-BAY AND THE EASTERN CANADIAN-ARCTIC ROLE OF NATURAL SEEPAGE $ FISHERIES AND OCEANS CANADA BEDFORD INST OCEANOG ATLANTIC OCEANOG LAB DARTMOUTH NS CANADA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 345-362 1981

0753 SUCH,C., LE ROUX,C. TREATMENT OF OIL RESIDUES FROM OIL SPILLS TREATMENT METHODS AND MECHANICAL PROPERTIES $ TRAITEMENT DES DECHETS PETROLIERS ISSUS DE MAREE NOIRE METHODES DE TRAITEMENT ET CARACTERISTIQUES MECANIQUES LAB CENT DES PONTS ET CHAUSSEES FR LAB CENT PONTS CHAUSSEES BULL LIAISON LAB PONTS CHAUSSEES (1210) P. 89-100 1980

RESINS

0306 GUMULKA,E., RYBKA,J. POLYURETHANE RESINS AS OIL SORBENTS IN WASTEWATER TREATMENT $ POLYTECH INST WROCLAW INST ENVIRONM PROTECT ENGN WROCLAW POLAND IN: PAWLOWSKI,L. PHYSICOCHEMICAL METHODS FOR WATER AND WASTEWATER TREATMENT P. 193-203 1980

RESINS

0531 MURZAKOV,R.M., SABANENKOV,S.A., SYUNYAEJ,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 674-677 1980

RESOURCE

0297 GERACI,J.R., STAUBIN,D.J. OFFSHORE PETROLEUM RESOURCE DEVELOPMENT AND MARINE MAMMALS A REVIEW AND RESEARCH RECOMMENDATIONS $ UNIV GUELPH ONTARIO VET COLL DEPT PATHOL GUELPH ONT CANADA MARINE FISHERIES REVIEW 42 (11) P. 1-12 1980

0330 HANN,R.W. JR. UNIT OPERATIONS UNIT PROCESSES AND LEVEL OF RESOURCE REQUIREMENTS FOR THE CLEANUP OF THE OIL SPILL FROM THE SUPERTANKER AMOCO-CADIZ $ TEX A AND M UNIV COLLEGE STATION PROC - OIL SPILL CONF LOS ANGELES CALIF P. 147-161 1979

RESOURCES

0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

0372 ILLINOIS INST OF NATURAL RESOURCES WASHINGTON, D.C. WASTE OIL MANAGEMENT CONFERENCE ROAD TO RECOVERY 80 PROCEEDINGS HELD AT AMOCO RESEARCH CENTER NAPERVILLE ILLINOIS ON APRIL 3 1980 $ PB-80-224876 134P. 1980

0456 LINDSTEDT-SIVA,J. PREPARING FOR OIL SPILLS PLANNING FOR OPTIMUM USE OF LIMITED RESOURCES $ ATLANT RICHFIELD CO LOS ANGELES CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 149-156 1981

0951 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS: LEGAL ASPECTS 1977-MAY 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-866203 165P. 1982

0955 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PLATFORMS: TECHNOLOGY REGULATIONS AND ENVIRONMENTAL EFFECTS 1977-JUNE 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-868381 173P. 1982

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

1009 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASE 1 - LITERATURE REVIEW AND FEASIBILITY STUDY $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-81-3 OTTAWA ONTARIO 1981

RESOURCES
1042 CENTRE FOR COLD OCEAN RESOURCES AN OILSPILL IN PACK ICE $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-15 OTTAWA ONTARIO 1981

RESPIRATION
0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

RESPIRATORY
0716 SHEFNER,A.M. RESPIRATORY CARCINOGENICITY OF DIESEL-FUEL EMISSIONS $ III RESEARCH INST CHICAGO IL PB-81-230955 35P. 1981

0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSWORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

RESPONSE
0048 BAKKE,T., JOHNSEN,T.M. RESPONSE OF A SUBTIDAL SEDIMENT COMMUNITY TO LOW LEVELS OF OIL HYDROCARBONS IN A NORWEGIAN FJORD $ INST OF MAR RES NORDNES-BERGEN NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 633-639 1979

0055 BEACH,R.L. STATE OF THE ART IN HIGH SEA-STATE OIL POLLUTION RESPONSE CAPABILITIES $ SEAWARD INT INC FALLS CHURCH VA ENVIRON INT 3 (2) P. 171-176 1980

0113 BROWN,C.H. PROCEEDINGS OF THE 1979 US FISH AND WILDLIFE SERVICE POLLUTION RESPONSE WORKSHOP HELD AT ST PETERSBURG FLORIDA ON 8 $ FISH AND WILDLIFE SERVICE WASHINGTON, D.C. PB-80-141591 212P. 1979

0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

0222 DOHERTY,C.B., GAUVIN,C.A., MARCOLINI,R.A., OBRIEN,J.L. OPEN OCEAN POLLUTION RESPONSE THE COAST GUARD SYSTEM $ US COAST GUARD OFFSHORE TECHNOL CONF 12TH ANNU PROC 1 P. 245-253 1980

0287 GAUER,J.P., KUMAR,H.D. GROWTH RESPONSE OF FOUR MICRO-ALGAE TO THREE CRUDE-OILS AND A FURNACE-OIL $ BANARAS HINDU UNIV VARANASI INDIA ENVIRON POLLUT SER A 25 (1) P. 77-85 1981

0313 GRASSLE,J.F., ELMGREN,R., GRASSLE,J.P. RESPONSE OF BENTHIC COMMUNITIES IN MERL EXPERIMENTAL ECOSYSTEMS TO LOW LEVEL CHRONIC ADDITIONS OF NO.-2-FUEL-OIL $ WOODS HOLE OCEANOGR INST MASS MAR ENVIRON RES 4 (4) P. 279-297 1981

RESPONSE

0400 KAZMIERCZAK,L.J. MAJOR SPILL RESPONSE PLANNING FOR TANKER OPERATIONS $ SUN CO PHILADELPHIA PA PROC - OIL SPILL LOS ANGELES CALIF P. 123-125 1979

0429 LAUGHLIN,R.B. JR., NG,J., GUARD,H.E. HORMESIS: A RESPONSE TO LOW ENVIRONMENTAL CONCENTRATIONS OF PETROLEUM HYDROCARBONS $ NAVAL BIOSCIENCES LAB OAKLAND CA AD-A097-079/8 4P. 1980

0471 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

0495 MARSH,G.D., SCHULTZ,L.A., DEBORD,F.W. COLD REGIONS SPILL RESPONSE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 355-358 1979

0524 MURSON,B., SOBEY,E. RESPONSE TO OIL SPILLS IN THE ARCTIC ENVIRONMENT: A REVIEW $ SCI APPL INC BOULDER COND OCEANS (NEW YORK) ANNU COMB CONF OF ICE AND MAR TECHNOL SOC 1979

0655 PSARAFTIS,H., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ MIT CAMBRIDGE MASS OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 407-414 1980

0656 PSARAFTIS,H.N., BAIRD,A.V., NYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-223109 9P. 1980

0711 SEAWARD INTERNATIONAL INC FALLS-CHURCH VA OIL POLLUTION RESPONSE PLANNING GUIDE FOR EXTREME WEATHER $ AD-A079-714/2 238P. 1979

0741 SPARROW,E.B., DAVENPORT,C.V., GORDON,R.C. RESPONSE OF MICROORGANISMS TO HOT CRUDE-OIL SPILLS IN A SUBARCTIC TAIGA SOIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB COLLEGE ALASKA PB-80-217722 16P. 1978

0823 WRIGHT,D.G. PLAN FOR SCIENTIFIC RESPONSE TO AN OIL SPILL IN THE BEAUFORT-SEA $ FISH AND ENVIRON CAN WINNIPEG MANIT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 525-532 1979

0868 CARON,D.A., SIEBURTH,J.M.C.N. RESPONSE OF PELTRICHOUS-CILIATES IN FOULING COMMUNITIES TO SEAWATER ACCOMMODATED HYDROCARBONS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-181850 23P. 1982

0907 HAYES,I.M. MARITIMES REGION OIL SPILL ALERTING AND RESPONSE ORGANISATION $ CAN COAST GUARD DARTMOUTH NS ENVIRON INT 5 (3) P. 149-152 1981

RESPONSE

0934 MILLER,S. ALASKAN USA BEAUFORT SEA COASTLINE SENSITIVITY ANALYSIS AND OIL SPILL RESPONSE MANUAL $ SUNIO ALASKAN PETROLEUM CO ANCHORAGE ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 173-175 1981

0938 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO HAZARDOUS MATERIALS RESPONSE PROJECT: PROGRAM PLAN $ PB82-193046 33P. 1981

0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

0985 SPARROW,E.B. LONG-TERM RESPONSE OF SOIL MICRO-ORGANISMS TO CRUDE-OIL SPILLS ON PERMA-FROST TERRAIN IN INTERIOR ALASKA USA $ INST OF WATER RESOURCES UNIV OF ALASKA FAIRBANKS ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 50-51 1981

1058 MACKAY,D. SCIENTIFIC RESPONSE TO SPILLS OF OPPORTUNITY $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-31 OTTAWA ONTARIO 1982

1082 ANONYMOUS OIL SPILL CLEANUP MANUAL VOLUME III RELIANCE ON CHEMICAL DISPERSANTS FOR AN OIL SPILL RESPONSE $ EXXON CORPORATION HOUSTON TEXAS 1980

RESPONSES

0839 BATTERSHILL,C.N., BERGQUIST,P.R. RESPONSES OF AN INTER-TIDAL GASTROPOD TO FIELD EXPOSURE OF AN OIL AND A DISPERSANT $ UNIV AUCKLAND DEPT ZOOL AUCKLAND NEW ZEALAND MARINE POLLUTION BULLETIN 13 (5) P. 159-162 1982

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

RESPONSIBLE

0611 UBERHULTZER,G.R., ACUFF,J.T. TARGETING SPILL PREVENTION AND CONTROL TRAINING TO THE RESPONSIBLE INDIVIDUAL $ NATL SPILL CONTROL SCH CORPUS CHRISTI TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 201-203 1979

RESTORATION

0159 CANEVARI,G.P. RESTORATION OF OILED SHORELINES BY THE PROPER USE OF CHEMICAL DISPERSANTS $ EXXON RES AND ENG CO FLORHAM PARK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 443-446 1979

0698 SCHIEGG,H.O. FIELD INFILTRATION AS A METHOD FOR THE DISPOSAL OF OIL-IN-WATER EMULSIONS FROM THE RESTORATION OF OIL POLLUTED AQUIFERS $ LAB HYDRAULICS HYDROL GLACIOL SWISS FED INST TECHNOL ZURICH SWITZ WATER RES 14 (8) P. 1011-16 1980

RESTORATION
0805 WENTSEL,R.S., JONES,W.E. III, FOUTCH,R., WILKINSON,M., KITCHENS,J.F. ACCELERATED RESTORATION OF SPILL DAMAGED LANDS $ ATLANTIC RES CORP ALEXANDRIA VA CONTROL HAZARD WATER SPILLS PROC NATL CONF P. 99-102 1980

RESTREPO,C.E
0919 LAMPHEAR,F.C., RESTREPO,C.E. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME III INPUT-OUTPUT MODEL FOR ECONOMIC ANALYSIS: INSTRUCTION MANUAL $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217878 443P. 1982

0974 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME I $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA PB82-217852 332P. 1982

0975 RESTREPO,C.E., LAMPHEAR,F.C., GUNN,C.A., DITTON,R.B., NICHOLS,J.P. IXTOC-I OIL SPILL ECONOMIC IMPACT STUDY VOLUME II EXECUTIVE SUMMARY $ BUREAU OF LAND MANAGEMENT NEW ORLEANS LA

RESURRECTION-BAY
0255 FEDER,H.M., PAUL,A.J., MCDONALD,J. A PRELIMINARY SURVEY OF THE BENTHOS OF RESURRECTION-BAY AND AIALIK ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-182991 57P. 1979

RETENTION
0608 NUMMEDAL,D., KUBY,C.H. SPILLED OIL RETENTION POTENTIAL BEAUFORT-SEA COAST OF ALASKA $ LOUISIANA STATE UNIV MED CTR DEPT GEOL NEW ORLEANS LA IN: NORWEGIAN INST TECHNOL PROC 79: THE FIFTH INTERNATIONAL CONF ON PORT AND ENG 3 P. 247-253 19

0885 FARRINGTON,J.W., DAVIS,A.C., FREW,N.M., RABIN,K.S. NO-2-FUEL-OIL COMPOUNDS IN MYTILUS-EDULIS RETENTION AND RELEASE AFTER AN OIL SPILL $ WOODS HOLE OCEANOG INST DEPT CHEM WOODS HOLE MA MARINE BIOLOGY 66 (1) P. 15-26 1982

RETORT
0720 SIERKA,R.A., SAADATI,A. PHYSICAL-CHEMICAL TREATMENT OF OIL-SHALE RETORT WATER $ UNIV OF ARIZ TUCSON USA PROC OF THE SPEC CONF - WATER FORUM '81 2 P. 902-909 1981

0901 GREGG,C.T., TIETJEN,G., HUTSON,J.Y. PRENATAL TOXICOLOGY OF SHALE-OIL RETORT WATER IN MICE $ UNIV CALIF LOS ALAMOS LOS ALAMOS NATL LAB LOS ALAMOS NM JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 795-804 1981

RETORTED
0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

RETRIEVAL
0949 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL: DISPERSANTS ABSORBANTS BOOMS AND SKIMMERS 1978-JANUARY 1982 (CITATIONS FROM THE INFORMATION RETRIEVAL LTD DATA BASE) $ PB82-859125 78P. 1982

REVEGETATION
0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

REVERSE-OSMOSIS
0416 KUTOWY,O., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES COUNC OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

0742 SPATZ,D.D. MULTI-YEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMONICS INC HOPKINS MN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 108P. 1980

0743 SPATZ,D.D. MULTIYEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMON INC IND RD HOPKINS MN ACS SYMPOSIUM SERIES (154) P. 221-236 1981

REWICK,R.T
0667 REWICK,R.T., GATES,J., SMITH,J.H. SIMPLE TEST OF DISPERSANT EFFECTIVENESS BASED ON INTERFACIAL-TENSION MEASUREMENTS $ STANFORD RES INST INT MENLO PARK CALIF FUEL 59 (4) P. 263-265 1980

RHEOLOGICAL
0220 DIDENKO,V.S. RHEOLOGICAL PROPERTIES OF WATER-OIL EMULSIONS TRANSPORTED IN PIPELINES $ NEFTYANOE KHOZYAISTVO (12) P. 53-56 1980

0600 NEUSTADTER,E., WHITTINGHAM,K.P., GRAHAM,D.E. INTERFACIAL RHEOLOGICAL PROPERTIES OF CRUDE-OIL-WATER SYSTEMS $ PB RES CTR DIV NEW TECHNOL SUNBURY THAMES MIDDLESEX ENGLAND IN: SHAH, D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 307-326 1981

RHODE-ISLAND
0355 HOFFMAN,E.J., FALKE,A.H., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

RIBIER,J
0970 RAFFIN,J.P., GODINEAU,J.C., RIBIER,J., PLATEL,R., FRANCILLON,H., REUNIER,F., BENEST,G. EVOLUTION OVER THE COURSE OF 3 YEARS OF SOME BRETON COASTAL AREAS AFTER OIL POLLUTION (AMOCO-CADIZ, 1978) $ UNIV PARIS ECOL GEN AND APPL LAB PARIS FRANCE CAHIERS DE BIOLOGIE MARINE 22 (3) P. 323-348 1981

RICH,V
0668 RICH,V. BALTIC OIL POLLUTION FINNS FIGHT SPILL $ NATURE 287 (5784) P. 673 1980

RICHARDS,D.R
0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

RICHARDS,N.L
0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

RICHTER,M
0670 RICHTER,M., KALLENOWSKY,E. A METHOD SAVING EXCAVATION WORK FOR REPAIRING LEAKS IN LOW PRESSURE GAS PIPELINES $ BRENNSTOFFINST FREIBERG FACHBEREICH LEIPZIG LEIPZIG GER ENERGIETECHNIK 31 (2) P. 58-61 1981

RIDLEY-TURTLE
0212 DELIKAT,D.S. IXTOC-I OIL SPILL AND ATLANTIC RIDLEY-TURTLE SURVIVAL $ US COAST GUARD WASHINGTON, D.C. PROC OF THE SUMP ON COASTAL AND OCEAN MANAGE 2ND 1 P. 312-319 1980

RILEY,R.G
0056 BEAN,R.M., BLAYLOCK,J.W., RILEY,R.G. APPLICATION OF TRACE ANALYTICAL TECHNIQUES TO A STUDY OF HYDROCARBON COMPOSITION UPON DISPERSION OF PETROLEUM IN A FLOWING SEAWATER SYSTEM $ BATTELLE MEM INST PACIFIC NW LABS BATTELLE BLVD RICHLAND WA IN: PETRAKIS,L., WEISS,F.T. PETROLEUM IN THE MARINE ENVIRONMENT 185 P. 235-246 1980

0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

0672 RILEY,R.G., THOMAS,B.L., ANDERSON,J.W., BEAN,R.M. CHANGES IN THE VOLATILE HYDROCARBON CONTENT OF PRUDHOE-BAY CRUDE-OIL TREATED UNDER DIFFERENT SIMULATED WEATHERING CONDITIONS $ BATTELLE PAC NORTHWEST LAB RICHLAND WA MAR ENVIRON RES 4 (2) P. 109-19 1980

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

RINA,J
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RINA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

RIPMEESTER,J.A

U673 RIPMEESTER,J.A., SIRIANNI,A.F. RECOVERY OF WATER AND BITUMEN FROM THE ATHABASCA OIL SAND TAILINGS PONDS $ NATL RES COUNCIL CANADA ONT JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (1) P. 131-133 1981

RISK

U193 COPPOLA,A., HALL,R.E. A RISK COMPARISON $ NUCLEAR REGULATORY COMMISSION WASHINGTON, D.C. 90P. 1981

U264 FLEMING,K.N., SILADY,F.A., HANNAMAN,G.W. TREATMENT OF OPERATOR ACTIONS IN THE HTGR RISK ASSESSMENT STUDY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1979

U275 FRANKLIN,A.L. TRECII: A COMPUTER PROGRAM FOR TRANSPORTATION RISK ASSESSMENT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 89P. 1980

U292 GEFFEN,C.A. ASSESSMENT OF THE RISK OF TRANSPORTING PROPANE BY TRUCK AND TRAIN $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 211P. 1980

U293 GEFFEN,C.A., FRANKLIN,A.L. ASSESSMENT OF THE RISK OF TRANSPORTING PROPANE BY TRUCK AND TRAIN $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 17P. 1979

U364 HOUGHTON,W.J. LICENSING TOPICAL REPORT: APPLICATION OF PROBABILISTIC RISK ASSESSMENT IN THE SELECTION OF DESIGN BASIS ACCIDENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 50P. 1980

U424 LASDAY,A.H. ASSESSMENT OF RISK TO MARINE BIOTA DURING AN OIL SPILL $ TEXACO INC USA PROC COUNC ECON AIME 108TH ANNU MEET P. 25-3 1979

U629 UZKAYNAK,H., MURPHY,B.L., WATSON,J.L. COMPARATIVE RISK ASSESSMENT TECHNIQUE FOR TANKER OIL SPILLS $ ENVIRON RES AND TECHNOL INC LEXINGTON MASS PROJ - OIL SPILL LOS ANGELES CALIF P. 37-43 1979

U631 PAGE,T. A FRAMEWORK FOR UNREASONABLE RISK IN THE TOXIC SUBSTANCES CONTROL ACT (TSCA) $ CALTECH ENVIRONM QUAL LAB PASADENA CA ANNALS OF THE NEW YORK ACADEMY OF SCIENCES 363 P. 145-166 1981

U643 PERRY,W.W., ARTICOLA,W.P. STUDY TO MODIFY THE VULNERABILITY MODEL OF THE RISK MANAGEMENT SYSTEM $ ENVIRO CONTROL INC ROCKVILLE MD AD-A084-214/6 212P. 1980

U647 PIERMAN,B.C. THE APPLICATION OF FAULT-TREES TO THE EVALUATION OF RISK $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-80-188790 4P. 1979

U744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

RISK

0766 THARAKAN,G.G., PSARAFTIS,H.N. A CRITICAL REVIEW OF OIL SPILL RISK ANALYSIS $ MIT CAMBRIDGE MA IN: IEEE OCEANS 81 CONFERENCE RECORD 1 AND 2 P. 933-938 1981

0779 IVEIT,O.J., MYKLATUN,B., BOHLER,T., VESTERHAUG,O. RISK ANALYSIS OF A TYPICAL NORTH SEA PETROLEUM PRODUCTION PLATFORM $ DET NOR VERITAS NORW OFFSHORE TECHNOL CONF 12TH ANNUAL PROC 4 P. 501-508 1980

0880 EDDIE,A.G.F. RISK ANALYSIS OF BERTHING ACCIDENTS INVOLVING LARGE SHIPS $ CUNNELL EDDIE AND ASSOC MELBOURNE AUSTRALIA IN: PERMANENT INT ASSOC NAV CONGRESSES P. 1-9 1981

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.K., KUSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

0976 SAMUELS,W.B., LANFEAR,K.J., MAKASSIS,A. OIL SPILL RISK ANALYSIS FOR THE KODIAK-ISLAND $ GEOLOGICAL SURVEY RESTON VA 99P. 1980

RISKS

0693 SAMPSON,A.R., SMITH,R.L. ASSESSING RISKS THROUGH THE DETERMINATION OF RARE EVENT PROBABILITIES $ AIR FORCE OFFICE OF SCIENTIFIC RESEARCH BOLLING AFB D.C. AD-A092-19274 47P. 1980

0787 VAN HORN,A.J., WILSON,R. POTENTIAL RISKS OF LIQUEFIED-NATURAL-GAS $ HARVARD UNIV ENERGY AND ENVIRON POLICY CENT CAMBRIDGE MASS 2 (4) P. 375-389 1977

0904 HAMMOND,K.A.G. ENVIRONMENTAL ASPECTS OF POTENTIAL PETROLEUM EXPLORATION AND EXPLOITATION IN ANTARCTICA: FORECASTING AND EVALUATING RISKS $ MARINE MAMMAL COMMISSION WASHINGTON,D.C. PB82-169772 34P. 1982

RIVER

0175 CHMIELOWIEC,J., BESHAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN LLOYDMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

0290 TSANG,G., RECOVERY OF OIL SPILLED UNDER RIVER ICE COVER $ NATL WATER RES INST BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 387-396 1979

0455 LINDSTEDT-SIVA,J. PREPARING FOR OIL SPILLS IN THE DELAWARE RIVER ESTUARY $ ATL RICHFIELD CO LOS ANGELES CALIF COASTAL ZONE '80 PROC OF THE SYMP ON COASTAL AND OCEAN MANAGE P. 294-311 1980

RIVER

0470 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

0471 LOCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

0632 PALM,D.J., ALEXANDER,M.M., PHILLIPS,D.M., LONGABUCCO,P. DAMAGE ASSESSMENT STUDIES FOLLOWING THE NEPCO-140 OIL SPILL ON THE ST.-LAWRENCE RIVER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-154594 175P. 1979

0659 RAJESHWAR,K., DUBOW,J., THAPAR,R. RADIO-FREQUENCY ELECTRICAL PROPERTIES OF GREEN RIVER OIL-SHALES $ COLORADO STATE UNIV DEPT ELECT ENGN FT COLLINS CO CANADIAN JOURNAL OF EARTH SCIENCES 17 (9) P. 1315-1321 1980

0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

0778 TSAHALIS,D.T. CONTINGENCY PLANNING FOR OIL SPILLS: RIVERSPILL A RIVER SIMULATION MODEL $ SHELL DEV CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 27-36 1979

1125 ANONYMOUS OIL SPILL CONTAINMENT BOOM EVALUATION TRIALS NORTH SASKATCHEWAN RIVER $ CANADIAN PETROLEUM ASSOCIATION PRAIRIE REGION 1980

RIVERS

0257 REELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

0314 GREENE,G.D., BRODSKY,A.Z., CHARLES,M.E., MALKAY,D. USE OF DEFLECTORS FOR DEPLOYMENT OF OIL BOOMS IN RIVERS $ ESSO RESOUR CAN LTD CALGARY ALBERTA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 411-417 1979

RIVERSPILL
0778 TSAHALIS,D.T. CONTINGENCY PLANNING FOR OIL SPILLS: RIVERSPILL A RIVER SIMULATION MODEL $ SHELL DEV CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 27-36 1979

RIVES,S.R
0669 RICHARDS,D.R., RIVES,S.R., BASTIAN,D.F. NANTICOKE RIVER MARYLAND DYE DISPERSION STUDY; CHESAPEAKE-BAY HYDRAULIC MODEL INVESTIGATION $ ARMY ENGINEER WATERWAYS EXPERIMMENT STATION VICKSBURG MS AD-A095-895/9 31P. 1981

RIVIERE,J
0050 BALLERINI,D., KAISER,P., RIVIERE,J. QUANTITATIVE AND QUALITATIVE DEVELOPMENT OF SOME BACTERIAL FUNCTIONAL GROUPS IN SEDIMENTS POLLUTED BY OIL SPILLS $ INST FRANCAIS PETROLE RUEIL MALMAISON FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 269-77 1981

RIVKIN,P.R
0526 MUKATANOV,A.K., RIVKIN,P.R. INFLUENCE OF PETROLEUM ON SOIL PROPERTIES $ NEFTYANOE KHOZYAISTVO (4) P. 53-54 1980

RIZKALLA,A.S
0792 VENKATESH,S., SAHOTA,H.S., RIZKALLA,A.S. PREDICTION OF THE MOTION OF OIL SPILLS IN CANADIAN ARCTIC WATERS $ ATMOS ENVIRON SERV DOWNSVIEW ONT CAN PROC - OIL SPILL LOS ANGELES CALIF P. 677-683 1979

ROBBINS,J.A
0933 MEYERS,P.A., TAKEUCHI,N., ROBBINS,J.A. PETROLEUM HYDROCARBONS IN SEDIMENTS OF SAGINAW-BAY LAKE HURON $ UNIV OF MICH ANN ARBOR USA J GREAT LAKES RES 6 (4) P. 315-320 1980

ROBERTSON,L.A
1012 ROBERTSON,L.A. OIL SPILL BARRIERS AND THEIR USE $ ENVIRONMENTAL PROTECTION REPORT # EPS-3-EC-81-5 OTTAWA ONTARIO 1981

ROBILLIARD,G.A
0628 OWENS,E.H., ROBILLIARD,G.A. SHORELINE SENSITIVITY AND OIL SPILLS A RE-EVALUATION FOR THE 1980'S $ MARINE POLLUTION BULLETIN 12 (3) P. 75-78 1981

ROBSON,W
0674 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

RODGERS,B.R
0349 HEWITT,J.D., RODGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 9P. 1980

ROGERS,J.E
0675 ROGERS,J.E., LI,S.W. MICROBIOLOGICAL ASPECTS OF THE GROUND DISPOSAL OF OIL-SHALE WASTES $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 7P. 1978

ROGERS,P.M
1097 CAIRNS,W.J., ROGERS,P.M. ONSHORE IMPACTS OF OFFSHORE OIL $ APPLIED SCIENCE PUBLISHERS LTD 1981

ROGERSON,A
0676 ROGERSON,A., BERGER,J. THE TOXICITY OF THE DISPERSANT COREXIT-9527 AND OIL DISPERSANT MIXTURES TO CILIATE-PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CHEMOSPHERE 10 (1) P. 33-39 1981

0677 ROGERSON,A., BERGER,J. THE EFFECTS OF COLD TEMPERATURES AND CRUDE-OIL ON THE ABUNDANCE AND ACTIVITY OF PROTOZOA IN A GARDEN SOIL $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CANADIAN JOURNAL OF ZOOLOGY 59 (8) P. 1554-1560 1981

0678 ROGERSON,A., BERGER,J. EFFECT OF CRUDE-OIL AND PETROLEUM DEGRADING MICROORGANISMS ON THE GROWTH OF FRESH-WATER AND SOIL PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO JOURNAL OF GENERAL MICROBIOLOGY 124 P. 53-59 1981

ROM,W.N
0360 HOLLAND,L.M., SPALL,W.D., GARCIA,L.L., ROM,W.N. (ED), ARCHER,V.E. (ED) INHALATION TOXICOLOGY OF OIL-SHALE RELATED MATERIALS $ LOS ALAMOS SCI LAB UNIV CALIFORNIA LOS ALAMOS NM HEALTH IMPLIC NEW ENERGY TECHNOL (PARK CITY ENVIRON HEALTH CONF) P. 515-26 1979

ROSAHL,M
0682 ROSAHL,M., ECKNIG,W. GAS-CHROMATOGRAPHIC METHOD FOR DETERMINATION OF RESIDUAL OIL AFTER OIL SEPARATORS IN COMPRESSOR INSTALLATIONS $ VEB KUHLAUTOMAT BERLIN GER CHEMISCHE TECHNIK 32 (11) P 589-593 1980

ROSCOFF
0213 DENHARTOG,C., JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON AN EELGRASS COMMUNITY AT ROSCOFF (FRANCE) WITH SPECIAL REFERENCE TO THE MOBILE BENTHIC FAUNA $ CATHOLIC UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 182-191 1980

0379 JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SEAGRASS COMMUNITY AT ROSCOFF WITH SPECIAL REFERENCE TO THE BENTHIC INFAUNA $ UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS MARINE ECOLOGY-PROGRESS SERIES 2 (3) P. 207-212 1980

ROSEBROOK,D.D
0808 WETHEROLD,R.G., ROSEBROOK,D.D. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 1 TECHNICAL REPORT $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-80-225253 482P. 1980

ROSEVILLE
0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

ROSI,S.S
0973 REISH,D.J., OSHIDA,P.S., WILKES,F.G., MEARNS,A.J., ROSI,S.S. MARINE ESTUARINE POLLUTION $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB82-128174 28P. 1981

ROSS,D.E
0333 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. DISPOSAL SYSTEMS FOR OIL RECOVERED FROM MARINE SPILLS $ SCS ENG LONG BEACH CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 15-28 1978

0334 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. OIL SPILL DEBRIS DISPOSAL HARDWARE SYSTEMS: METHODS FOR CONCEPTUALIZATION AND DEVELOPMENT $ SCS ENG LONG BEACH CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 507-513 1979

ROSS,S.L
0680 ROSS,S.L. THE DEVELOPMENT OF COUNTERMEASURES FOR OIL SPILLS IN CANADIAN ARCTIC WATERS $ ENVIRONM PROTECT SERV PROGRAM ARCT MARINE OIL SPILL OTTAWA ONTARIO IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 377-399 1981

0681 ROSS,S.L. OIL SPILL COUNTERMEASURES IN OFFSHORE PRODUCTION $ ROSS ENVIRONM RES LTD OTTAWA ONTARIO IN: UPTON,C.R. PROCEEDINGS OF THE NINTH ENVIRONMENTAL WORKSHOP ON OFFSHORE HYDROCARBON DEVELOPMENT P. 372-389 1980

1117 ROSS,S.L. NORMAN-WELLS OILFIELD EXPANSION OIL SPILL SCENARIOS AND COUNTERMEASURES $ S.L. ROSS ENVIRONMENTAL RESEARCH LTD NWT 1980

ROTARY-KILN
1037 BROWN,W.J., DENHAM,F.R. AN ECONOMIC EVALUATION OF A MOBILE ROTARY-KILN DESIGNED FOR THE CLEANUP OF OIL CONTAMINATED BEACHES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-10 OTTAWA ONTARIO 1980

ROUCACHE,J
0488 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS: APPLICATION TO THE "BOHLEN" OIL SPILLAGE $ CENT OCEANOL BRETAGNE CNEXO BREST FR OCEANOL ACTA 4 (2) P. 171-83 1981

0492 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS APPLICATION TO THE BOHLEN OIL SPILLAGE $ CTR NATL EXPLOITAT OCEANS CTR OCEANOL BRETAGNE BP BREST FRANCE OCEANOLOGICA ACTA 4 (2) P. 171-183 1981

ROUSSEL,J.C
0683 ROUSSEL,J.C., GAUTIER,R. AGEING OF ARABIAN LIGHT CRUDE-OIL IN SEAWATER PHYSICOCHEMICAL CHARACTERS DURING SIX MONTHS $ INST FRANCAIS PETROLE RUEIL MALMAISON FRANCE AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 135-47 1979

ROUTE

0991 TOPGI,K.S., NORONHA,R.J., PONDEKAR,S.P., SENGUPTA,R. DISSOLVED PETROLEUM HYDROCARBONS ALONG THE OIL TANKER ROUTE IN THE SOUTHERN BAY OF BENGAL $ NATL INST OCEANOG DONA PAULA DAMAN AND DIU INDIA INDIAN JOURNAL OF MARINE SCIENCES 11 (2) P. 175-176 1982

ROUTES

0201 COX,J.M., EBBESMEYER,C.C., HELSETH,J.M., COUMES,C.A. DRIFT CARD OBSERVATIONS IN NORTHWESTERN WASHINGTON ALONG PORTIONS OF TWO PROPOSED OIL PIPELINE ROUTES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-173853 196P. 1980

ROUX,C

0753 SUCH,C., LE ROUX,C. TREATMENT OF OIL RESIDUES FROM OIL SPILLS TREATMENT METHODS AND MECHANICAL PROPERTIES $ TRAITEMENT DES DECHETS PETROLIERS ISSUS DE MAREE NOIRE METHODES DE TRAITEMENT ET CARACTERISTIQUES MECANIQUES LAB CENT DES PONTS ET CHAUSSEES FR LAB CENT PONTS CHAUSSEES BULL LIAISON LAB PONTS CHAUSSEES (1210) P. 89-100 1980

ROWELL,M.J

0504 MCGILL,W.B., ROWELL,M.J. DETERMINATION OF OIL CONTENT OF OIL CONTAMINATED SOIL $ UNIV ALBERTA DEPT SOIL SCI EDMONTON ALBERTA CANADA SCIENCE OF THE TOTAL ENVIRONMENT 14 (3) P. 245-253 1980

ROWLAND,S.J

0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., ROWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD COUNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

ROZENTSVAIG,A.K

0685 ROZENTSVAIG,A.K., TRONOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

RUBIO,C

0489 MARCHAND,M., MONFORT,J.P., RUBIO,C. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE "AMOCO-CADIZ" OIL SPILLS $ CNEXO BREST FR AM CHEM SOC DIV ENVIRON CHEM PREPR 20 (2) P. 97-99 1980

RUBIO,C.A

0490 MARCHAND,M., MONFORT,J.P., RUBIO,C.A. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE AMOCO-CADIZ AND IXTOC-1 OIL SPILLS $ CTR OCEANOL BRETAGNE BREST FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 37P. 1980

RUBY,C.H
0608 NUMMEDAL,D., RUBY,C.H. SPILLED OIL RETENTION POTENTIAL BEAUFURT-SEA COAST OF ALASKA $ LOUISIANA STATE UNIV MED CTR DEPT GEOL NEW ORLEANS LA IN: NORWEGIAN INST TECHNOL PROC 79: THE FIFTH INTERNATIONAL CONF ON PORT AND ENG 3 P. 247-253 19

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

RUCKENSTEIN,E
0686 RUCKENSTEIN,E., KRISHNAN,R. EFFECT OF ELECTROLYTES AND MIXTURES OF SURFACTANTS ON THE OIL-WATER INTERFACIAL-TENSION AND THEIR ROLE IN FORMATION OF MICRO-EMULSIONS $ SUNY BUFFALO FAC ENGN AND APPL SCI BUFFALO NY JOURNAL OF COLLOID AND INTERFACE SCIENCE 76 (1) P. 201-211 1980

RUCKER,J.E
0408 KNOWLTON,H.E., RUCKER,J.E. REFINERY OILY WASTE TREATMENT AND DISPOSAL TECHNIQUES AND THEIR POTENTIAL APPLICATION TO OIL SPILL DEBRIS $ CHEVRON RES CO RICHMOND CALIF DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP DENVER COLO P. 109-117 1978

RUDD,J.K
0790 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DE-ROOCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE REP (9) 52P. 1980

1113 VAN OUDENHOVEN,J.A.C.M., ANGLES,M., DEBROCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE 1980

RUPTURE
0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT THE PIPELINES OF PUERTO-RICO INC PETROLEUM PRODUCTS PIPELINE RUPTURE AND FIRE BAYAMON PUERTO-RICO JANUARY 30 1980 $ PB-81-204351 69P. 1980

RUPTURES
0687 SAGE,B. RUPTURES IN THE TRANS-ALASKA OIL PIPELINE CAUSES AND EFFECTS $ AMBIO 9 (5) P. 262-263 1980

RUSHWORTH,R
0476 LYSYJ,I., RUSHWORTH,R., MELVOLD,R., FARLOW,J. EFFECTIVENESS OF A LARGE-SCALE BALLAST TREATMENT PROCESS $ ROCKWELL INT NEWBURY PARK CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 133-137 1979

RYAN,J.P
1011 DAWE,B.R., PARASHAR,S.K., RYAN,J.P., WORSFOLD,R.D. THE USE OF SATELLITE IMAGERY FOR TRACKING THE KURDISTAN OIL SPILL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-6 OTTAWA ONTARIO 1981

RYAN,W
0303 GILL,S.D., RYAN,W. ASSESSMENT OF THE ACW-400 OIL SKIMMER BY THE CANADIAN COAST GUARD FOR OIL SPILL COUNTERMEASURE OPERATIONS $ CAN COAST GUARD EMERG OTTAWA ONT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 497-499 1979

RYBKA,J
0306 GUMOLKA,E., RYBKA,J. POLYURETHANE RESINS AS OIL SORBENTS IN WASTEWATER TREATMENT $ POLYTECH INST WROCLAW INST ENVIRONM PROTECT ENGN WROCLAW POLAND IN: PAWLOWSKI,L. PHYSICOCHEMICAL METHODS FOR WATER AND WASTEWATER TREATMENT P. 193-203 1980

RYEGRASS
0854 BROWN,K.W., BRANAND,H., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 257-261 1982

S/S-TEXACO-NORTH-DAKOTA
0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND EI-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

SAADATI,A
0720 SIERKA,R.A., SAADATI,A. PHYSICAL-CHEMICAL TREATMENT OF OIL-SHALE RETORT WATER $ UNIV OF ARIZ TUCSON USA PROC OF THE SPEC CONF - WATER FORUM '81 2 P. 902-909 1981

SABANENKOV,S.A
0531 MURZAKOV,R.M., SABANENKOV,S.A., SYUNYAEJ,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 674-677 1980

SADD,J.L
0884 EKNST,W.D., GUNDLACH,E.R., THEBEAU,L.C., SADD,J.L. SENSITIVITY OF COASTAL ENVIRONMENTS TO SPILLED OIL: SOUTHERN CAROLINA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-188061 47P. 1982

SAFETY
0019 ANGERMAN,C.L., BICKFORD,D.F., GOULD,T.H. JR., SMITH,P.K. SAFETY ANALYSIS REPORT FOR THE EXP-238-PUO-SUB-2-FUEL FORM FACILITY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 200P. 1977

0027 ANON. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ NAS WASHINGTON, D.C. PUBL NMAB MAIL MATER ADVIS BOARD (US) (354) 357P. 1980

0039 AUNE,A.B., VLIESTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS $ PUB: NORTH HOLLAND PUBL CO JAN VAN GALENSTRAAT AMSTERDAM NETH 441P. 1980

SAFETY

0172 CHAPANIS,A. HUMAN FACTORS ENGINEERING FOR SAFETY $ PROF SAF 25 (7) P. 16-25 1980

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0183 COAST GUARD WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0189 CUMPTON,M. TERMINAL SAFETY GUIDELINES ESTABLISHED $ CARGO SUST INT 7 (6) P. 109, 111, 113, 115 1980

0229 DRISCOLL,W.J. PIPELINE AND HAZARDOUS MATERIALS TRANSPORTATION SAFETY AND OIL SPILL REDUCTION $ US DOT WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 23-25 1979

0236 DEPARTMENT OF ENERGY, WASHINGTON, D.C. LIQUEFIED GASEOUS FUELS SAFETY AND ENVIRONMENTAL CONTROL ASSESSMENT PROGRAM: SECOND STATUS REPORT $ 229P. 1980

0241 DEPARTMENT OF ENERGY WASHINGTON, D.C. APPROACH TO LIQUEFIED-NATURAL-GAS (LNG) SAFETY AND ENVIRONMENTAL CONTROL RESEARCH $ 464P. 1978

0294 GEFFEN,C.A. POTENTIAL SAFETY AND ENVIRONMENTAL CONCERNS IN PETROLEUM TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1979

0295 GEOLOGICAL SURVEY RESTON VA SAFETY AND OFFSHORE OIL $ PB-82-128042 350P. 1981

0339 HAUER,E. BIAS-BY-SELECTION: OVERESTIMATION OF THE EFFECTIVENESS OF SAFETY COUNTERMEASURES CAUSED BY THE PROCESS OF SELECTION FOR TREATMENT $ UNIV OF TORONTO DNT ACCID ANAL PREV 12 (2) P. 113-117 1980

0374 INGRAU,H.C., HEIDERSBACH,R.H., SHARP,K.K. PIPELINE TRANSPORTATION SAFETY R AND D WORKING GROUP MEETING PROCEEDINGS HELD AT CAMBRIDGE MASSACHUSETTS ON JUNE 30-JULY 1 1980 $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-81-151359 70P. 1980

0376 IRELAND,G.F. TANKER SAFETY AND POLLUTION PREVENTION HOW MUCH IS ENOUGH? $ US COAST GUARD WASHINGTON, D.C. PROC - SHIP TECHNOL AND RES (STAR) SYMP 5TH HELD IN CONJUNCTION WITH SNAME SPRING MEET CORONADO CALIF P. 5-19 1980

0381 JAPAN ATOMIC ENERGY RESEARCH INST TOKYO SAFETY ANALYSIS OF FUEL CIRCULATING SYSTEM FOR TOKAMAK EXPERIMENTAL FUSION REACTOR $ 161P. 1978

0394 KARELL,M. RELIABILITY AND SAFETY ANALYSIS OF ACTIVITY MEASURING SYSTEMS I RELIABILITY ANALYSIS OF THE STACK MONITORING SYSTEM 1317A $ AKTIEBOLAGET ATOMENERGI STUDSVIK (SWEDEN) STUDSVIK-IP-78-3 26P. 1978

SAFETY

0481 MAGOTT,R.J., BASS,R.L. III, MORROW,I.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

0497 MARTINSEN,W.E., JOHNSON,D.W., WELKER,J.R. FIRE SAFETY ON LPG IN MARINE TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 216P. 1980

0525 MUSS,I.J. QUANTITATIVE TECHNIQUES FOR NUCLEAR PLANT SAFETY ASSESSMENT AND DESIGN $ AUSTRALIAN ATOMIC ENERGY COMMISSION GOUGEE 9P. 1978

0539 NATIONAL MATERIALS ADVISORY BOARD (NRC) WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1980

0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF LOUDELLE GEORGIA EXPLOSION AND FIRE CORDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 16 1979 $ PB-81-105694 27P. 1980

0582 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1979 $ PB-81-108615 122P. 1980

0583 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1980 $ PB-81-156978 52P. 1980

SAFETY

0584 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. SAFETY EFFECTIVENESS EVALUATION FEDERAL AND STATE ENFORCEMENT EFFORTS IN HAZARDOUS MATERIALS TRANSPORTATION BY TRUCK $ PB-81-180101 113P. 1981

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND EI-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

0587 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, BARGE PANAMA-CITY GOOD HOPE LOUISIANA AUGUST 30 1979 $ PB-80-200850 45P. 1980 D.C. MARINE ACCIDENT REPORT: COLLISION OF PERUVIAN FREIGHTER M/V INCA-TUPAC-YUPANGUI AND US BUTANE

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT THE PIPELINES OF PUERTO-RICO INC PETROLEUM PRODUCTS PIPELINE RUPTURE AND FIRE BAYAMON PUERTO-RICO JANUARY 30 1980 $ PB-81-204851 69P. 1980

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

0591 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSION 215 THIRD STREET SE WASHINGTON, D.C. OCTOBER 30 1979 $ PB-80-213457 33P. 1980

0592 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSIONS AT ANNANDALE VIRGINIA MARCH 24 1972 $ PB-214-328/7 42P. 1972

0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

SAFETY

0595 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT PENNSYLVANIA GAS AND WATER COMPANY NATURAL-GAS EXPLOSIONS WILLIAMSPORT PENNSYLVANIA JANUARY 25 1977 $ PB-277-052/7ST 26P. 1977

0738 SNIDER,W.D., SHEEHAN,D.F., JOHNSON,E.K. OVERVIEW OF CURRENT AND PROPOSED TANK VESSEL SAFETY AND POLLUTION PREVENTION MEASURES $ US COAST GUARD SEATTLE WASH PROG - SHIP TECHNOL AND RES (STAR) SYMP 4TH P. 93-119 1979

0750 STORCH,R.L., WENK,E. JR. VESSEL TRAFFIC SAFETY IN PUGET-SOUND $ UNIV OF WASH SEATTLE OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 181-186 1980

0776 DEPARTMENT OF TRANSPORTATION WASHINGTON, D.C. ANNUAL REPORT OF PIPELINE SAFETY 1978 $ PB-81-154874 95P. 1978

0777 DEPARTMENT OF TRANSPORTATION WASHINGTON, D.C. ANNUAL REPORT ON PIPELINE SAFETY 1979 $ PB-81-154882 59P. 1979

0781 TURNER,M.J. SAFETY EVALUATION OF CROSS COUNTRY PIPELINES $ HEALTH AND SAF EXEC LONDON ENGL 7TH INT SYMP INST CHEM ENG SYMP SER (58) P. 245-256 1980

0845 BLACK,W.T., HOLLOWAY,D.M., LUSCHER,J., NYMAN,D.J., THOMAS,H.P. STUDY OF THE FACTORS AFFECTING THE SAFETY OF ARCTIC PIPELINES $ DEPARTMENT OF TRANSPORTATION WASHINGTON,D.C. PB82-149030 114P. 1981

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.K., KUSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MUSSMURRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

0917 KUUMAN,C., DEBRUIN,D., SMIT,J.A. TRAFFIC ACCIDENTS AND SAFETY MEASURES ON DUTCH WATERWAYS $ PUBL WORKS DEPT DELTA DEPT DIV ENGN BERGEN OP ZOOM NETHERLANDS IN: PERMANENT INT ASSOC NAV CONGRESSES 11 P. 313-333 1981

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

1101 ANONYMOUS SAFETY AND OFFSHORE OIL $ NATIONAL ACADEMY PRESS WASHINGTON,D.C. 1981

SAGE,B

0687 SAGE,B. RUPTURES IN THE TRANS-ALASKA OIL PIPELINE CAUSES AND EFFECTS $ AMBIO 9 (5) P. 262-263 1980

SAGINAW-BAY

0933 MEYERS,P.A., TAKEUCHI,N., ROBBINS,J.A. PETROLEUM HYDROCARBONS IN SEDIMENTS OF SAGINAW-BAY LAKE HURON $ UNIV OF MICH ANN ARBOR USA J GREAT LAKES RES 6 (4) P. 315-323 1980

SAHOTA,H.S

0792 VENKATESH,S., SAHOTA,H.S., RIZKALLA,A.S. PREDICTION OF THE MOTION OF OIL SPILLS IN CANADIAN ARCTIC WATERS $ ATMOS ENVIRON SERV DOWNSVIEW ONT CAN PROC - OIL SPILL LOS ANGELES CALIF P. 677-683 1979

SAIDAMINOV,I.A

0393 KARELIN,Y.A., ZHUKOV,D.D., SAIDAMINOV,I.A. BIOCHEMICAL TREATMENT OF OIL CONTAINING WASTEWATER IN AERATION TANKS $ CHEM TECHNOL FUELS OILS 15 (7-8) P. 540-544 1979

SAINTPAUL,C

0688 SAINTPAUL,C., MONIN,J.C., DURAND,B. FAST METHOD FOR CHARACTERIZING C-1 TO C-35 HYDROCARBONS CONTAINED IN SEDIMENTARY-ROCKS AND IN OILS $ INST FRANCAIS PETR PARIS FRANCE REVUE DE L INSTITUT FRANCAIS DU PETROLE 35 (6) P. 1065-1078 1980

SAITO,T

0813 WIDAYAT,KUSNO,P., MOERDUKO,W., WINIATI,W., NAGINAKA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

SAKAIDA,R.R

0604 NORTON,R.L., SAKAIDA,R.R., YAMADA,M.M. HYDROCARBON CONTROL STRATEGIES FOR GASOLINE MARKETING OPERATIONS $ ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PK NC PB-80-194632 123P. 1978

SALEM-SOUND

0498 MATHEWS,K.W. "GLOBAL-HOPE IS AGROUND" AN INCIDENT AT SALEM-SOUND $ FIRST COAST GUARD DIST BOSTON MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 127-132 1979

SALGADO,M

0164 LAHRANZAFRASER,J., SALGADO,M. PRELIMINARY RESULTS OF INVESTIGATIONS ON THE EFFECT OF THE IXTOC-I OIL SPILL ON THE ECOLOGY AND FISHERIES OF THE GULF OF MEXICO $ ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 33P. 1980

SALIBA,L.J

0041 AXIAK,V., SALIBA,L.J. EFFECTS OF SURFACE AND SUNKEN CRUDE-OIL ON THE BEHAVIOR OF A SEA-URCHIN $ UNIV MALTA DEPT MATH AND SCI TAL MALTA MARINE POLLUTION BULLETIN 12 (1) P. 14-19 1981

SALMO-GAIRDNERI

0244 ENGELHARDT,F.R., WONG,P.P., DJEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIRRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

SALMONELLA-MAMMALIAN

0347 HERMANN,M., CHAUDE,O., NEILL,N., BEDOUELLE,M., HOFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

SALT

0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SEGTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

SALT-MARSH

0211 DELAUNE,R.D., PATRICK,W.H. JR., BURESH,R.J. EFFECT OF CRUDE-OIL ON A LOUISIANA SPARTINA-ALTERNIFLORA SALT-MARSH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-164502 11P. 1979

0432 LEE,R.F., DORNSEIF,B., GONSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

0480 MACKO,S.A., PARKER,P.L., BOTELLO,A.V. PERSISTANCE OF SPILLED OIL IN A TEXAS USA SALT-MARSH $ PORT ARANSAS MAR LAB MAR SCI INST UNIV TEX PORT ARANSAS TEX ENVIRON POLLUT SER B CHEM PHYS 2 (2) P. 119-128 1981

0519 MILAN,C.S., WHELAN,T. III ACCUMULATION OF PETROLEUM HYDROCARBONS IN A SALT-MARSH ECOSYSTEM EXPOSED TO STEADY STATE OIL INPUT $ LOUISIANA STATE UNIV BATON ROUGE PB-80-128853 26P. 1979

SALT-MARSHES

0954 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SALT-MARSHES 1977-JUNE 1982 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB82-867003 175P. 1982

SAMAIN,J.F

0690 SAMAIN,J.F., MUAL,J., COUM,A., LECOR,J.R., DANIEL,J.Y. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON ZOOPLANKTON A NEW POSSIBILITY OF ECOPHYSIOLOGICAL SURVEY $ CTR OCEANOL BRETAGNE BP F-29273 BREST FRANCE HELGOLANDER MEERESUNTERSUCH- UNGEN 33 (1-4) P. 225-235 1980

0691 SAMAIN,J.F., MUAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE CUZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

0692 SAMAIN,J.F., MUAL,J., DANIEL,J.Y., SOUCHER,J., LEFEVRE,J. ECOPHYSIOLOGICAL EFFECTS OF OIL SPILLS FROM AMOCO-CADIZ ON PELAGIC COMMUNITIES PRELIMINARY RESULTS $ CENT OCEANOL DE BRETAGNE BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 175-185 1979

SAMPLES

0198 CORTES,A., ALTAMIRANO,J. CHEMICAL EVOLUTION OF HYDROCARBONS IN WEATHERED BEACH OIL SAMPLES AFTER THE IXTOC-1 ACCIDENT $ INST MEXICANO PETR DIV ANALYT MEXICO CITY MEXICO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 1CP. 1980

0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MORITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0840 BEDINGER,C.A., BOLTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-1 BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV S HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS I HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

SAMPLING

0386 JOHNSON,I., MYLES,K.M., SICZEK,A.A. SAMPLING AND ANALYSIS OF HYDROCARBONS IN COMBUSTION GASES QUARTERLY REPORT APRIL-JUNE 1980 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1980

SAMPLING

0736 SMITH,W. AN OIL SPILL SAMPLING STRATEGY $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-174170 11P. 1979

1020 GREEN,D.R. CHEMISTRY 1 FIELD SAMPLING AND ENVIRONMENTAL CHEMISTRY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-1 OTTAWA ONTARIO 1981

SAMPSON,A.R

0693 SAMPSON,A.R., SMITH,R.L. ASSESSING RISKS THROUGH THE DETERMINATION OF RARE EVENT PROBABILITIES $ AIR FORCE OFFICE OF SCIENTIFIC RESEARCH BOLLING AFB D.C. AD-A092-192/4 47P. 1980

SAMSON,A.L

1007 SAMSON,A.L., VANDERMEULEN,J.H., WELLS,P.G., MOYSE,C. A SELECTED BIBLIOGRAPHY ON THE FATE OF OIL POLLUTION RELEVANT TO THE CANADIAN MARINE ENVIRONMENT $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-5 OTTAWA ONTARIO 1980

SAMUELS,W.B

0976 SAMUELS,W.B., LANFEAR,K.J. NAKASSIS,A. OIL SPILL RISK ANALYSIS FOR THE KODIAK-ISLAND $ GEOLOGICAL SURVEY RESTON VA 99P. 1980

SAN-FRANCISCO

0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

SAND

0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

0673 RIPMEESTER,J.A., SIRIANNI,A.F. RECOVERY OF WATER AND BITUMEN FROM THE ATHABASCA OIL SAND TAILINGS PONDS $ NATL RES COUNCIL CANADA UNT JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (1) P. 131-133 1981

0876 DAUVIN,J.C. IMPACT OF AMOCO-CADIZ OIL SPILL ON THE MUDDY FINE SAND ABRA-ALBA AND MELINNA-PALMATA COMMUNITY FROM THE BAY OF MORLAIX $ STN BIOL ROSCOFF FRANCE ESTUARINE COASTAL AND SHELF SCIENCE 14 (5) P. 517-531 1982

SANDERS,H.L

0694 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S., JONES,C.C. ANATOMY OF AN OIL SPILL: LONG-TERM EFFECTS FROM THE GROUNDING OF THE BARGE FLORIDA OFF WEST FALMOUTH MASSACHUSETTS $ WOODS HOLE OCEANOGR INST MASS J MAR RES 38 (2) P. 265-380 1980

0695 SANDERS,H.L., GRASSLE,J.F., HAMPSON,G.R., MORSE,L.S., GARNER-PRICE,S. LONG-TERM EFFECTS OF THE BARGE FLORIDA OIL SPILL $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-144792 225P. 1981

SANDERS,R.G
0332 HANSEN,C.A., SANDERS,R.G. REMOVAL OF HAZARDOUS MATERIAL SPILLS FROM BOTTOMS OF FLOWING WATERBODIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-230922 113P. 1981

SANDHILL
0886 FLEMING,W.J., SILEO,L., FRANSON,J.C. TOXICITY OF PRUDHOE-BAY CRUDE-OIL TO SANDHILL CRANES $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD JOURNAL OF WILDLIFE MANAGEMENT 46 (2) P. 474-478 1982

SANDS
0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

SANDY
0508 MCLACHLAN,A., HARTY,B. EFFECTS OF OIL ON WATER FILTRATION BY EXPOSED SANDY BEACHES $ UNIV PORT ELIZABETH DEPT ZOOL PORT ELIZABETH SOUTH AFRICA MARINE POLLUTION BULLETIN 12 (11) P. 374-378 1981

0751 STRAUGHAN,D. DISTRIBUTION OF TAR AND RELATIONSHIP TO CHANGES IN INTERTIDAL ORGANISMS ON SANDY BEACHES IN SOUTHERN CALIFORNIA $ UNIV OF SOUTH CALIF LOS ANGELES PROC - OIL SPILL CONF LOS ANGELES CALIF P. 591-601 1979

SANTA-BARBARA
0837 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 2 THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 287-294 1981

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 1 HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

SARTOR,J.D
0696 SARTOR,J.D., CASTLE,R.W. CONTINGENCY PLANNING FOR LIQUID PIPELINE SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF ASME PAP N 81-PET-12 FOR MEET 8P. 1981

SASKATCHEWAN
1125 ANONYMOUS OIL SPILL CONTAINMENT BOOM EVALUATION TRIALS NORTH SASKATCHEWAN RIVER $ CANADIAN PETROLEUM ASSOCIATION PRAIRIE REGION 1980

SASS,L
0117 BUDAY,F., SASS,L., TOROK,G., GERGELY,Z., SZAKACS,A., VORUS,I. MICROBIOLOGICAL DEGRADATION OF OIL POLLUTION OF SOILS $ HIGH PRESSURE RES INST SZASZHALOMBATTA HUNGARY ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE 27 (3) 258P. 1980

SATELLITE

0260 FIELDER,G., TELFER,D.J., HALL,T.S., WILSON,L., FRYER,R.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD 22P. 1980

0261 FIELDER,G., TELFER,D.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 24P. 1979

1011 DAWE,B.R., PARASHAR,S.K., RYAN,J.P., WORSFOLD,R.D. THE USE OF SATELLITE IMAGERY FOR TRACKING THE KURDISTAN OIL SPILL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EL-81-6 OTTAWA ONTARIO 1981

SAVIN,L.N

0512 MELENT'EVA,N.I., MALYSHEVA,I.V., KALITINA,N.N., SAVIN,L.N. ACCELERATED METHOD FOR EVALUATING CHEMICAL STABILITY OF FUELS DURING LONG-TERM STORAGE $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 843-846 1979

SCALLOPS

0623 ORDZIE,C.J., GAROFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

SCATTERING

0913 JOHNSON,J.W., CROSWELL,W.F. CHARACTERISTICS OF 13.9 GHZ RADAR SCATTERING FROM OIL FILMS ON THE SEA SURFACE $ NASA LANGLEY RES CTR HAMPTON VA RADIO SCIENCE 17 (3) P. 611-617 1982

SCENARIOS

0702 SCHULTZ,L.A., MARSH,G.D. OFFSHORE AND COASTAL ALASKAN OIL SPILL SCENARIOS $ ARCTEC INC COLUMBIA MD ASME PAP N 80-PET-40 FOR MEET 13P. 1980

0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCOLES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

1117 ROSS,S.L. NORMAN-WELLS OILFIELD EXPANSION OIL SPILL SCENARIOS AND COUNTERMEASURES $ S.L. ROSS ENVIRONMENTAL RESEARCH LTD NWT 1980

SCHAFFNER,L.C

0094 BUESCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALONGI,D.M., BUWEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 258P. 1981

SCHENKER,E
0697 SCHENKER,E. REDUCING TANKBARGE POLLUTION $ NATIONAL RESEARCH COUNCIL WASHINGTON, D.C. AD-A102-11877 79P. 1981

SCHIEGG,H.O
0698 SCHIEGG,H.O. FIELD INFILTRATION AS A METHOD FOR THE DISPOSAL OF OIL-IN-WATER EMULSIONS FROM THE RESTORATION OF OIL POLLUTED AQUIFERS $ LAB HYDRAULICS HYDROL GLACIOL SWISS FED INST TECHNOL ZURICH SWITZ WATER RES 14 (8) P. 1011-16 1980

SCHIFF,D
0699 SCHIFF,D. OIL SPILL CLEANUP CAN BE EFFECTIVE AND SELF SUPPORTING $ ENVIRON INT 3 (2) P. 189-192 1980

SCHMIDT,R.E
0811 WHITE,J.R., SCHMIDT,R.E., PLAGE,W.E. AIREYE REMOTE-SENSING SYSTEM FOR OIL SPILL SURVEILLANCE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 301-304 1979

SCHNEIDER,A.L
0473 LUCKRITZ,R.T., SCHNEIDER,A.L. DECISION MAKING IN HAZARDOUS MATERIALS TRANSPORTATION $ US COAST GUARD ACAD NEW LONDON CONN J HAZARD MATER 4 (2) P. 135-143 1980

0700 SCHNEIDER,A.L. LIQUEFIED-NATURAL-GAS SPILLS ON WATER FIRE MODELING $ US COAST GUARD WASHINGTON, D.C. J FIRE FLAMMABILITY 12 (4) P. 302-313 1980

SCHNEIDER,E.D
0370 HYLAND,J.L., SCHNEIDER,E.D. PETROLEUM HYDROCARBONS AND THEIR EFFECTS ON MARINE ORGANISMS POPULATIONS COMMUNITIES AND ECOSYSTEMS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-80-195423 43P. 1979

SCHOOL
0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

0612 UBERHULTZER,G.R., ACUFF,J.T. NATIONAL SPILL CONTROL SCHOOL A PILOT PROGRAM IN ENVIRONMENTAL TRAINING FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 52P. 1980

SCHRIER,E
0168 CASTLE,R.W., SCHRIER,E. DECISION CRITERIA FOR THE CHEMICAL DISPERSION OF OIL SPILLS $ WOODWARD-CLYDE CONSULT SAN FRANCISCO CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 459-463 1979

SCHULTZ,D.A
0701 SCHULTZ,D.A. BOONE-CREEK OIL SPILL $ ENVIRONMENTAL PROTECTION AGENCY ATHENS GA PB-80-159320 53P. 1973

SCHULTZ,L.A
0495 MARSH,G.D., SCHULTZ,L.A., DEBORD,F.W. COLD REGIONS SPILL RESPONSE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 355-358 1979

SCHULTZ,L.A
0702 SCHULTZ,L.A., MARSH,G.D. OFFSHORE AND COASTAL ALASKAN OIL SPILL SCENARIOS $ ARCTEC INC COLUMBIA MD ASME PAP N 80-PET-40 FOR MEET 13P. 1980

0893 FREE,A.P., COX,J.C., SCHULTZ,L.A. LABORATORY STUDIES OF OIL SPILL BEHAVIOR IN BROKEN ICE FIELDS $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A114-178/7 63P. 1981

SCHULTZ,T.W
0877 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 2 THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 281-294 1981

SCHWARTZ,S.H
0272 FOSTER,D.M., SCHWARTZ,S.H., SMITH,G.F. A STATISTICAL EVALUATION OF OHMSETT TESTING $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-226128 39P. 1981

SCHWENK,W
0703 SCHWENK,W. CORROSION CHEMICAL REQUIREMENTS ON THE PROPERTIES OF PIPELINE COATINGS $ MANNESMANN FORSCHUNGSINST GMBH DUISBURG FED REP GER 3 (DEC) R ROHRE ROHRLEITUNGSBAU ROHRLEITUNGSTRANSP 19 (10) P. 586-93 1980

SCIENCE
0025 ANON. ENERGY IN THE BALANCE SOME PAPERS FROM BA79: PAPERS GIVEN AT THE ANNUAL MEETING OF THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE 1979 $ BR ASSOC FOR THE ADV OF SCI ENERGY IN THE BALANCE SOME PAP FROM BA79 234P. 1979

0704 SCIENCE APPLICATIONS INC BOULDER CO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF LOWER COOK INLET INTERIM SYNTHESIS REPORT $ PB-80-130735 252P. 1979

0705 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME I $ PB-80-143704 203P. 1979

0706 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 1-7 $ PB-80-143712 403P. 1979

0707 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORT 1 SECTIONS 8-15 $ PB-80-143720 395P. 1979

0708 SCIENCE APPLICATIONS INC LA-JOLLA CA INTERTIDAL STUDY OF THE SOUTHERN CALIFORNIA BIGHT 1977/1978 (THIRD YEAR) VOLUME II REPORTS 10-19 $ PB-80-143753 596P. 1979

0709 SCIENCE APPLICATIONS INC LA-JOLLA CA SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME III METHODOLOGY REPORTS $ PB-80-166119 237P. 1979

SCIENCE
0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

SCULES,R.G
0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCULES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

SCOTLAND
0104 BOURNE,W.R.P. SETBACK TO CONTROL OF OIL POLLUTION IN SCOTLAND $ UNIV ABERDEEN ABERDEEN SCOTLAND MARINE POLLUTION BULLETIN 11 (7) 177P. 1980

SCOTT,B.F
0710 SCOTT,B.F., NAGY,E., SHERRY,J.P., DUTKA,B.J., GLOUSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER $ NATL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

1088 NAGY,E., SCOTT,B.F., HART,J. THE FATE OF OIL AND DISPERSANT MIXTURES IN FRESHWATER ECOSYSTEMS $ NATIONAL WATER RESEARCH INSTITUTE ENVIRONMENT CANADA BURLINGTON ONTARIO 1980

SCOTT,G.I
0209 DAVIS,W.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

SEA
0002 ADLARD,E.R. OIL POLLUTION AT SEA $ INST PETR IP PANEL ST G 7,61 NEW CAVENDISH ST LONDON ENGL CHEMISTRY IN BRITAIN 17 (9) P. 404 1981

0003 AHEARN,D.G., CROW,S.A. YEASTS FROM THE NORTH SEA AND AMOCO-CADIZ OIL $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-110496 5P. 1980

0005 AHEL,M., PICER,M. AN OIL SPILL AT SEA ORIGIN AND FATE $ CENT ISTRAZIVANJE MORA INST "RUDER BOSKOVIC" ZAGREB-ROVINJ YUGOSLAVIA ACTA ADRIAT 21 (1) P. 237-48 1980

0007 ALBAIGES,J. FINGERPRINTING PETROLEUM POLLUTANTS IN THE MEDITERRANEAN SEA $ CSIC INST QUIM ORGAN JORGE GIRONA SALGADO BARCELONA SPAIN IN: ALBAIGES,J. ANALYTICAL TECHNIQUES IN ENVIRONMENTAL CHEMISTRY 3 P. 69-81 1980

0052 BARKER,C.D. APPLICATION OF CHEMICAL DISPERSANTS AT SEA $ SOUTH CALIF PET CONTINGENCY ORGAN SAN PEDRO ANNU MEET PAP AM PET INST PROD DEP NEW ORLEANS LA P. A. 1-A. 1979

SEA

0077 BESPALOVA,E.A., MILITSKIY,Y.A., POKROVSKAYA,I.V., MIROVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (10) P. 54-58 1978

0108 BRIDIE,A.L., WANDERS,TH.M., ZEGVELD,W., VAN DER HEIJDE,H.B. EMULSIONS "CHOCOLATE-MOUSSES" $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

0181 COAST GUARD WASHINGTON, D.C. THE WINDWAVE AND TURBULENCE OBSERVATION PROGRAM (WAVTUP) THE MEASUREMENT OF PARAMETERS CONTROLLING DOWNWARD MIXING OF OIL FROM THE SEA SURFACE $ AD-A083-014/1 103P. 1979

0196 CORMACK,D., PARKER,H. USE OF AIRCRAFT FOR THE CLEARANCE OF OIL SPILLS AT SEA $ WARREN SPRING LAB STEVENAGE HERTFORDSHIRE ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 469-473 1979

0202 CRANE,G.D. DEVELOPMENT OF THE DEPARTMENT OF THE ENVIRONMENT'S POLLUTION PAPER NO 8 (ON ACCIDENTAL OIL POLLUTION OF THE SEA) $ DEP OF THE ENVIRON AND TRANSP MAR ENVIRON AND OIL FACIL PROC OF A CONF LONDON ENGL P. 49-63 1978

0260 FIELDER,G., TELFER,D.J., HALL,T.S., WILSON,L., BRYER,R.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD 22P. 1980

0261 FIELDER,G., TELFER,D.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 24P. 1979

0312 GRAHL-NIELSEN,O., NESTREIM,K., WILHELMSEN,S. PETROLEUM HYDROCARBONS IN THE NORTH SEA $ INST OF MAR RES BERGEN-NORDNES NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 629-632 1979

0338 HARTMANN,B., STEINVALL,O., WIDEN,A. TESTS OF LASER INDUCED FLUORESCENCE FROM ALGAE AT SEA $ LASERINDUCERAD FLUORESCENS FRAAN ALGER RESULTAT FRAAN ETT BAATBURN RESEARCH INST OF NATIONAL DEFENCE STOCKHOLM (SWEDEN) 52P. 1979

0348 HESS,K.W., KERR,C.L. MODEL TO FORECAST THE MOTION OF OIL ON THE SEA $ NATL WEATHER SERV SILVER SPRING MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 653-663 1979

0353 HIYAMA,Y. SURVEY OF THE EFFECTS OF THE SETO INLAND SEA OIL SPILL IN 1974 $ UNIV OF TOKYO JPN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 699-707 1979

0395 KARINEN,J.F. PETROLEUM IN THE DEEP SEA ENVIRONMENT: POTENTIAL FOR DAMAGE TO BIOTA $ NOAA AUKE BAY ALASKA ENVIRON INT 3 (2) P. 135-144 1980

SEA

0412 KURULYUV,A.M., SYOMINA,T.K., MAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ MV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

0422 LARGE,K. OIL POLLUTION AT SEA $ HAZLETON LABS EUROPE LTD MASSPEC ANALYT STROUD GLOUCESTERSHIRE ENGLAND CHEMISTRY IN BRITAIN 17 (9) 406P. 1981

0433 LEE,R.F. PROCESSES AFFECTING THE FATE OF OIL IN THE SEA $ SKIDAWAY INST OCEANOGR SAVANNAH GA ELSEVIER OCEANOGR SER (AMSTERDAM) 27A NO. (MAR ENVIRON POLLUT VI HYDROCARBONS) P. 337-51, 531-68 1980

0454 LINDEN,O., ELMGREN,R., BOEHM,P. TSESIS OIL SPILL: ITS IMPACT ON THE COASTAL ECOSYSTEM OF THE BALTIC SEA $ SWED WATER AND AIR POLLUT RES INST NYKOPING AMBIO 8 (6) P. 244-253 1979

0479 MACKAY,D., MATSUGU,A., NG,C., MADEAU,S. BEHAVIOR AND EFFECTIVENESS OF DISPERSANTS AT SEA AND AT SHORELINES $ UNIV OF TORONTO ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 447-452 1979

0499 MAZMANIDI,N.D., KUTOV,A.M. EFFECT OF PETROLEUM DISPERSANTS ON THE SURVIVAL RATE AND SOME PHYSIOLOGICAL-BIOCHEMICAL BLOOD INDEXES OF THE BLACK SEA SEA-BASS (SPICARA-SMARIS-L.) $ USES NAUCHNO-ISSLED INST MORSK RYBN KHOZ OKEANOGR BATUMI USSR GIDROBIOL ZH 17 (1) P. 74-8 1981

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

0506 MCINTYRE,A.D. THE USE OF BIOLOGICAL PARAMETERS TO MONITOR OIL POLLUTION IN THE SEA $ DEPT AGR AND FISHERIES SCOTLAND MARINE LAB ABERDEEN SCOTLAND IN: BRITISH ASSOC ADVANCEMENT SCI ENERGY IN THE BALANCE P. 37-50 1980

0520 MIRONOV,O.G., SHCHEKATURINA,T.L., YANOV,B.G., STEPANETS,L.G. USE OF MUSSELS IN PURIFICATION OF OIL CONTAINING SEA WATERS $ NEFTYANOE KHOZYAISTVO (6) P. 63-65 1981

0523 MURRIS,P.R. CLEAN-UP OF OIL POLLUTION AT SEA $ WARREN SPRING LAB STEVENAGE HERTFORDSHIRE ENGL PROC EUR OFFSHORE PET CONF EXHIB 1 P. 141-148 1980

0534 NAESS,A. EFFECT OF BREAKING WAVES ON THE MIXING OF LIQUID POLLUTANTS INTO THE SEA $ NORW HYDRODYN LAB TRONDHEIM NATL CONF PUBL INST ENG AUST (80-1) P. 198-199 1980

0535 NAESS,A. MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ NORW HYDRODYN LAB JPT J PET TECHNOL 32 (6) P. 1113-1122 1980

Sea

0649 POLEY,J.P. SELECTIVE OIL SPILL COMBAT PLANNING FOR OFFSHORE EXPLORATION AND PRODUCTION OPERATIONS IN THE NORTH SEA $ SHELL INT PET THE HAGUE NETH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 641-647 1979

0779 TVEIT,O.J., MYKLATUN,B., BOHLER,T., VESTERHAUG,O. RISK ANALYSIS OF A TYPICAL NORTH SEA PETROLEUM PRODUCTION PLATFORM $ DET NOR VERITAS NORW OFFSHORE TECHNOL CONF 12TH ANNUAL PROC 4 P. 501-508 1980

0880 WHITE,I.C., NICHOLS,J.A., GARNETT,M.J. TEN YEAR OVERVIEW OF OIL SPILL CLEAN-UP AT SEA $ POLLUT FED LTD LONDON ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 247-251 1979

0936 AKSI,K.H.Y., KARO,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

0943 BERTRAND,A.R.V. INSTITUT FRANCAIS DU PETROLE DATABANK ON ACCIDENTAL OIL SPILLS AT SEA (1955-1980) NEW RESULTS $ (LA BANQUE DE DONNEES DE L'INSTITUT FRANCAIS DU PETROLE SUR LES DEVERSEMENTS ACCIDENTELS DE PETROLE EN MER (1955-1980) - NOUVEAUX RESULTATS) INST FR DU PET RUEIL-MALMAISON REV INST FR PET 36 (2) P. 229-239 1981

0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

0905 HANSEN,D.J. THE RELATIVE SENSITIVITY OF SEA BIRD POPULATIONS IN ALASKA USA TO OIL SPILLS $ ALASKA OCS OFFICE BUREAU LAND MANAGEMENT ANCHORAGE ALASKA PROCEEDINGS OF THE 23RD ALASKA SCIENCE MEETING FAIRBANKS ALASKA USA 32 (0) P. 96-97 1981

0913 JOHNSON,J.W., CROSWELL,W.F. CHARACTERISTICS OF 13.9 GHZ RADAR SCATTERING FROM OIL FILMS ON THE SEA SURFACE $ NASA LANGLEY RES CTR HAMPTON VA RADIO SCIENCE 17 (3) P. 611-617 1982

0914 KALMYKOV,A.I., PICHUGIN,A.P. SPECIAL FEATURES OF THE DETECTION OF SEA SURFACE INHOMOGENEITIES BY THE RADAR METHODS $ OSOBENNOSTI OBNARUZHENIYA NEODNORODNOSTEI MORSKOI POVERKHNOSTI RADIOLOKATSIONNYM METODOM ACAD OF SCI OF THE UKR SSR INST OF RADIOPHYS AND ELECTRON KIEV IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 754-761 1981

0918 KUKNBERG,H. OIL POLLUTION OF THE SEA AN ASSESSMENT $ ROYAL COMMISS ENVIRONM POLLUT LONDON ENGLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 429-432 198?

SEA

0934 MILLER,S. ALASKAN USA BEAUFORT SEA COASTLINE SENSITIVITY ANALYSIS AND OIL SPILL RESPONSE MANUAL $ SOHIO ALASKAN PETROLEUM CO ANCHORAGE ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 173-175 1981

0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

0981 SLIWINSKI,A. POSSIBILITIES OF THE USE OF ACOUSTIC MEASUREMENT METHODS IN THE EXAMINATION OF OIL SPILLS ON THE SEA $ POL (PL) STUD WATER OCEANOL 35 P. 159-80 1981

0984 SORENSEN,B.M., STURM,B., TASSAN,S. SOME RESULTS FROM EXPERIMENTS ON REMOTE-SENSING OF WATER QUALITY AND OIL POLLUTION IN THE MEDITERRANEAN SEA $ COMMISS EUROPEAN COMMUNITIES JOINT RES CTR ISPRA ITALY IN: ENVIRONM RES INST MICHIGAN PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 1 AND 2 P. 417-424 1982

0992 VANBLARICOM,G.R., JAMESON,R.J. LUMBER SPILL IN CENTRAL CALIFORNIA WATERS IMPLICATIONS FOR OIL SPILLS AND SEA OTTERS $ US FISH AND WILDLIFE SERV SAN SIMEON CA SCIENCE 215 (4539) P. 1503-1505 1982

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

0999 WILSON,H.B. DEVELOPMENT AND TESTING OF A WEIR BOOM FOR OIL RECOVERY AT SEA $ BR PET CO ENGL PET REV 35 (417) P. 36-39 1981

1064 INTERA ENVIRONMENTAL CONSULTANTS LIMITED REMOTE-SENSING ANALYSIS OF THE OIL SPILL DISPERSANT SEA TRIAL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-40 OTTAWA ONTARIO 1982

1069 BUIST,I., DICKINS,D. OIL AND GAS UNDER SEA ICE STUDY - VOLUMES 1 AND 2 $ DOME PETROLEUM LIMITED 1981

1078 ANONYMOUS AERIAL OBSERVATION OF OIL AT SEA $ INTERNATIONAL TANKER OWNERS POLLUTION FEDERATION LTD HOUNDSDITCH LONDON 1981

1143 MAESS,A. THE MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ JOURNAL OF PETROLEUM TECHNOLOGY 1979

SEA-ANEMONE

0961 URMUND,R.F.G., CALDWELL,S. THE EFFECT OF OIL POLLUTION ON THE REPRODUCTION AND FEEDING BEHAVIOR OF THE SEA-ANEMONE ACTINIA-EQUINA $ UNIV YORK DEPT BIOL YORK N YORKSHIRE ENGLAND MARINE POLLUTION BULLETIN 13 (4) P. 118-122 1982

SEA-BASS

0499 MAZMANIDI,N.D., KOTOV,A.M. EFFECT OF PETROLEUM DISPERSANTS ON THE SURVIVAL RATE AND SOME PHYSIOLOGICAL-BIOCHEMICAL BLOOD INDEXES OF THE BLACK SEA SEA-BASS (SPICARA-SMARIS-L.) $ USES NAUCHNO-ISSLED INST MORSK RYBN KHOZ OKEANOGR BATUMI USSR GIDROBIOL ZH 17 (1) P. 74-8 1981

SEA-STATE

0055 BEACH,R.L. STATE OF THE ART IN HIGH SEA-STATE OIL POLLUTION RESPONSE CAPABILITIES $ SEAWARD INT INC FALLS CHURCH VA ENVIRON INT 3 (2) P. 171-176 1980

SEA-URCHIN

0041 AXIAK,V., SALIBA,L.J. EFFECTS OF SURFACE AND SUNKEN CRUDE-OIL ON THE BEHAVIOUR OF A SEA-URCHIN $ UNIV MALTA DEPT MATH AND SCI TAL MALTA MARINE POLLUTION BULLETIN 12 (1) P. 14-19 1981

0789 VASHCHENKO,M.A. THE EFFECT OF WATER-SOLUBLE HYDROCARBON FRACTIONS OF DIESEL-FUEL ON THE DEVELOPMENT OF GAMETES AND QUALITY OF THE OFFSPRING IN THE SEA-URCHIN STRONGYLOCENTROTUS-NUDUS $ ACAD SCI USSR BIULOGIYA MORYA-MARINE BIOLOGY (4) 68P. 1980

SEA-URCHINS

0788 VASHCHENKO,M.A. EFFECTS OF OIL POLLUTION ON THE DEVELOPMENT OF SEX CELLS IN SEA-URCHINS $ ACAD SCI USSR HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 297-30 1980

SEA-WATER

0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

0072 BERNE,S., MARCHAND,M., D'OZOUVILLE,L. POLLUTION OF SEA-WATER AND MARINE SEDIMENTS IN COASTAL AREAS $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR ANNID 9 (6) P. 287-293 1980

0244 ENGELHARDT,F.R., WONG,M.P., DJEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ ND ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND ND DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSWORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

SEABIRD

0879 DUNNET,G.M. OIL POLLUTION AND SEABIRD POPULATIONS $ UNIV ABERDEEN DEPT ZOOL ABERDEEN SCOTLAND PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 413-427 1982

SEABIRDS

0231 DUNNET,G.M. SEABIRDS AND OIL POLLUTION $ UNIV ABERDEEN DEPT ZOOL CULTERY FIELD STN ABERDEEN SCOTLAND IN: BRITISH ASSOC ADVANCEMENT SCI ENERGY IN THE BALANCE P. 51-64 1980

0639 PEAKALL,D.B., MILLER,D.S., KINTER,W.B. PHYSIOLOGICAL TECHNIQUES FOR ASSESSING THE IMPACT OF OIL ON SEABIRDS $ CAN WILDL SERV OTTAWA ONT ASTM SPEC TECH PUBL N 693 AVIAN AND MAMM WILDL TOXICOL (SYMP) NEW ORLEANS P. 52-60 1978

SEAGRASS

0379 JACOBS,R.P.W.M. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SEAGRASS COMMUNITY AT ROSCOFF WITH SPECIAL REFERENCE TO THE BENTHIC INFAUNA $ UNIV NIJMEGEN AQUAT ECOL LAB NETHERLANDS MARINE ECOLOGY-PROGRESS SERIES 2 (3) P. 207-212 1980

SEARL,T.D

0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.H., CANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-18 1980

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

SEAS

0028 ARAVAMUDAN,K., RAJ,P.K., NEWMAN,E., TUCKER,W.A. BREAK-UP OF OIL ON ROUGH SEAS SIMPLIFIED MODELS AND STEP-BY-STEP CALCULATIONS $ COAST GUARD WASHINGTON, D.C. AD-A084-240/1 210P. 1979

0335 GIRALT,F., MEDIR,M., MACKAY,D. OIL CONTAMINATION OF THE MEDITERRANEAN AND BEAUFORT SEAS TO CURE TO PREVENT OR TO NEGLECT $ UNIV BARCELONA FAC QUIM TARRAGONA DEPT QUIM TECN TARRAGONA SPAIN AFINIDAD 38 (373) P. 215-219 1981

0745 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RECOMMENDATIONS FROM A RESEARCH APPRAISAL $ DEP ZOOL UNIV GUELPH GUELPH ONT MAR POLLUT BULL 12 (2) P. 45-46 1981

1016 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-2 OTTAWA ONTARIO 1982

1028 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS - RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-1 OTTAWA ONTARIO 1980

SEASAT-A

0249 ESTES,J.E., WILSON,M., HAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

SEASHORE

0626 DUDOT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

SEATIGER

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

SEATTLE

0247 ENVIRONMENTAL PROTECTION AGENCY SEATTLE WA ALASKA PETROCHEMICAL COMPANY REFINERY AND PETROCHEMICAL FACILITY VALDEZ ALASKA $ PB-81-117038 349P. 1980

SEAWATER

0056 BEAN,R.M., BLAYLOCK,J.W., RILEY,R.G. APPLICATION OF TRACE ANALYTICAL TECHNIQUES TO A STUDY OF HYDROCARBON COMPOSITION UPON DISPERSION OF PETROLEUM IN A FLOWING SEAWATER SYSTEM $ BATTELLE MEM INST PACIFIC NW LABS BATTELLE BLVD RICHLAND WA IN: PETRAKIS,L., WEISS,F.T. PETROLEUM IN THE MARINE ENVIRONMENT 185 P. 235-246 1980

0101 BOLSTER,R.N., LITTLE,R.C. CHEMICAL DEMULSIFICATION OF SEAWATER IN RESIDUAL OIL EMULSIONS $ US NAV RES LAB WASHINGTON, D.C. ENVIRON INT 3 (2) P. 163-170 1980

0308 GORSLINE,J., HOLMES,W.V., CROWSHAW,J. THE EFFECTS OF INGESTED PETROLEUM ON THE NAPHTHALENE METABOLIZING PROPERTIES OF LIVER-TISSUE IN SEAWATER ADAPTED MALLARD-DUCKS (ANAS-PLATYRHYNCHOS) $ UNIV CALIF SANTA BARBARA DEPT BIOL SCI SANTA BARBARA CA ENVIRONMENTAL RESEARCH 24 (2) P. 377-390 1981

0438 LEE,W.Y., MORRIS,A., BOATWRIGHT,D. MEXICAN OIL SPILL A TOXICITY STUDY OF OIL ACCOMMODATED IN SEAWATER ON MARINE-INVERTEBRATES $ UNIV TEXAS INST MARINE SCI PORT ARANSAS MARINE LAB PORT ARANSAS TX MARINE POLLUTION BULLETIN 11 (8) P. 231-234 1980

0491 MARCHAND,M.H. THE AMOCO-CADIZ OIL SPILL DISTRIBUTION AND EVOLUTION OF HYDROCARBON CONCENTRATIONS IN SEAWATER AND MARINE SEDIMENTS $ CENT OCEANOL BRETAGNE CNEXO BREST FR ENVIRON INT 4 (5-6) P. 421-9 1980

SEAWATER

0683 KOUSSEL,J.C., GAUTIER,R. AGEING OF ARABIAN LIGHT CRUDE-OIL IN SEAWATER PHYSICOCHEMICAL CHARACTERS DURING SIX MONTHS $ INST FRANCAIS PETROLE RUEIL MALMAISON FRANCE AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 135-47 1979

0868 LAKUN,D.A., SIEBURTH,J.M.C.N. RESPONSE OF PERITRICHOUS-CILIATES IN FOULING COMMUNITIES TO SEAWATER ACCOMMODATED HYDROCARBONS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-181850 23P. 1982

SEAWAYS

0894 FUGLUM,A., SMITH,R.M., BRATIANU,V., LAWRENCE,W.M.R., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMURRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

SEDIMENT

0036 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATION ON SEDIMENT WORKING RATES OF ABARENICOLA-PACIFICA $ BATTELLE PACIFIC NW LAB MARINE RES LAB SEQUIM WA MARINE ENVIRONMENTAL RESEARCH 3 (4) P. 307-313 1980

0037 AUGENFELD,J.M. EFFECTS OF PRUDHOE-BAY CRUDE OIL IN SEDIMENT ON ABARENICOLA-PACIFICA IN LABORATORY AND FIELD EXPERIMENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1980

0048 BAKKE,T., JOHNSEN,T.M. RESPONSE OF A SUBTIDAL SEDIMENT COMMUNITY TO LOW LEVELS OF OIL HYDROCARBONS IN A NORWEGIAN FJORD $ INST OF MAR RES NORDNES-BERGEN NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 633-639 1979

0257 FEELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

0329 HAMBRICK,G.A. III, DELAUNE,R.D., PATRICK,W.H. JR. EFFECT OF ESTUARINE SEDIMENT PH AND OXIDATION-REDUCTION POTENTIAL ON MICROBIAL HYDROCARBON DEGRADATION $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-128233 6P. 1980

0357 HOFFMAN,E.J., QUINN,J.G. A COMPARISON OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS FROM NANTUCKET SHOALS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231508 12P. 1981

0358 HOFFMAN,E.J., QUINN,J.G. GAS-CHROMATOGRAPHIC ANALYSES OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS AT THE WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231524 7P. 1981

SEDIMENT
0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION BY THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

SEDIMENTARY-ROCKS
0688 SAINTPAUL,C., MUNIN,J.C., DURAND,B. FAST METHOD FOR CHARACTERIZING C-1 TO C-35 HYDROCARBONS CONTAINED IN SEDIMENTARY-ROCKS AND IN OILS $ INST FRANCAIS PETR PARIS FRANCE REVUE DE L INSTITUT FRANCAIS DU PETROLE 35 (6) P. 1065-1078 1980

SEDIMENTATION
1061 MACKAY,D., HOSSAIN,K. AN EXPLORATORY STUDY OF SEDIMENTATION OF NATURALLY AND CHEMICALLY DISPERSED OIL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-35 OTTAWA ONTARIO 1982

SEDIMENTOLOGY
0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

SEDIMENTS
0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

0050 BALLERINI,D., KAISER,P., RIVIERE,J. QUANTITATIVE AND QUALITATIVE DEVELOPMENT OF SOME BACTERIAL FUNCTIONAL GROUPS IN SEDIMENTS POLLUTED BY OIL SPILLS $ INST FRANCAIS PETROLE RUEIL MALMAISON FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 269-77 1981

0072 BERNE,S., MARCHAND,M., D'OZOUVILLE,L. POLLUTION OF SEA-WATER AND MARINE SEDIMENTS IN COASTAL AREAS $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR AMBIO 9 (6) P. 287-293 1980

0076 BESLIER,A., BIRKIEN,J.L., CABIOCH,L., LARSONNEUR,C., LEBURGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

0086 BLACKMAN,R.A.A., LAW,R.J. THE ELENI-V OIL SPILL FATE AND EFFECTS OF THE OIL OVER THE 1ST 12 MONTHS 1 OIL IN WATERS AND SEDIMENTS $ MINIST AGRIC FISH FOOD FISH LAB REMEBRANCE AVE BURNHAM-ON-CROUCH ESSEX ENGL UK MAR POLLUT BULL 11 (7) P. 199-204 1980

SEDIMENTS

0094 BUESCH,D.F., BURRESON,E.M., SCHAFFNER,L.C., ALONGI,D.M., BOWEN,M.A. EXPERIMENTAL COLONIZATION OF CRUDE-OIL CONTAMINATED SEDIMENTS BY BENTHOS ON THE MIDDLE ATLANTIC CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-223570 259P. 1981

0096 BUTELLO,A.V., CASTRO,S.A. BASE-LINE STUDIES FOR HYDROCARBONS AND ORGANIC-CARBON ISOTOPE RATIOS OF RECENT SEDIMENTS IN THE BANK OF CAMPECHE BEFORE THE IXTOC-1 OIL-SPILL $ NATL AUTONOMOUS UNIV MEXICO CTR CIENCIAS MAR AND LIMNOL MEXICO CITY ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 35P. 1980

0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

0158 CABIOCH,L. POLLUTION OF SUBTIDAL SEDIMENTS AND DISTURBANCE OF BENTHIC-ANIMAL COMMUNITIES $ ROSCOFF BIOL STN FR AMBIO 9 (6) P. 294-296 1980

0227 D'OZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

0356 HOFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

0388 JOHNSTON,C.S., BLANCHARD,J.R. HYDROCARBONS IN SEDIMENTS AND ASSOCIATED ORGANISMS $ INST OFFSHORE ENG HERIOT-WATT UNIV EDINBURGH SCOT ENERGY BALANCE PAP ANNU MEET BR ASSOC ADV SCI P. 20-36 1979

0420 LAKE,J.L., DIMUCK,C.W., NORWOOD,C.B. COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ EPA NARRAGANSETT RI ADV CHEM SER 185 PET IN THE MAR ENVIRON SYMP AT THE MEET OF THE ACS P. 343-360 1980

0421 LAKE,J.L., DIMUCK,C.W., NORWOOD,C.B. A COMPARISON OF METHODS FOR THE ANALYSIS OF HYDROCARBONS IN MARINE SEDIMENTS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-165839 20P. 1981

SEDIMENTS

0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.K., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 633-44 1979

0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., ROWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD COUNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

0488 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS: APPLICATION TO THE "BOHLEN" OIL SPILLAGE $ CENT OCEANOL BRETAGNE CNEXO BREST FR OCEANOL ACTA 4 (2) P. 171-83 1981

0489 MARCHAND,M., MONFORT,J.P., RUBIO,C. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE "AMOCO-CADIZ" OIL SPILLS $ CNEXO BREST FR AM CHEM SOC DIV ENVIRON CHEM PREPR 20 (2) P. 97-99 1980

0490 MARCHAND,M., MONFORT,J.P., RUBIO,C.A. DISTRIBUTION OF HYDROCARBONS IN WATER AND MARINE SEDIMENTS AFTER THE AMOCO-CADIZ AND IXTOC-1 OIL SPILLS $ CTR OCEANOL BRETAGNE BREST FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 37P. 1980

0491 MARCHAND,M.H. THE AMOCO-CADIZ OIL SPILL DISTRIBUTION AND EVOLUTION OF HYDROCARBON CONCENTRATIONS IN SEAWATER AND MARINE SEDIMENTS $ CENT OCEANOL BRETAGNE CNEXO BREST FR ENVIRON INT 4 (5-6) P. 421-9 1980

0492 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS APPLICATION TO THE BOHLEN OIL SPILLAGE $ CTR NATL EXPLOITAT OCEANS CTR OCEANOL BRETAGNE BP BREST FRANCE OCEANOLOGICA ACTA 4 (2) P. 171-193 1981

0626 DUDOIT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

SEDIMENTS
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX I CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

0933 MEYERS,P.A., TAKEUCHI,N., ROBBINS,J.A. PETROLEUM HYDROCARBONS IN SEDIMENTS OF SAGINAW-BAY LAKE HURON $ UNIV OF MICH ANN ARBOR USA J GREAT LAKES RES 6 (4) P. 315-320 1980

SEEDING
0363 HOROWITZ,A., ATLAS,R.M., OXLEY,T.A. (ED), BECKER,G. (ED), ALLSUPP,D. (ED) MICROBIAL SEEDING TO ENHANCE PETROLEUM HYDROCARBON BIODEGRADATION IN AQUATIC ARCTIC ECOSYSTEMS $ DEP BIOL UNIV LOUISVILLE LOUISVILLE KY BIODETERIOR PROC INT BIODETERIOR SYMP 4TH P. 15-20 1978

SEEP
0877 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 2 THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 287-294 1981

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 1 HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

SEEPAGE
0448 LEVY,E.M. BACKGROUND LEVELS OF PETROLEUM RESIDUES IN BAFFIN-BAY AND THE EASTERN CANADIAN-ARCTIC ROLE OF NATURAL SEEPAGE $ FISHERIES AND OCEANS CANADA BEDFORD INST OCEANOG ATLANTIC OCEANOG LAB DARTMOUTH NS CANADA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 345-362 1981

SEEPS
0986 SPIES,R.B. EFFECTS OF NATURAL PETROLEUM SEEPS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 28P. 1981

SEILLER,M
0214 DEPRAETERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

SELECTION

0276 FRASER,J.P. OIL SPILL COUNTERMEASURES A RATIONAL SYSTEM FOR SELECTION AND SIZING OF EQUIPMENT $ SHELL OIL CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 253-255 1979

0364 HOUGHTON,W.J. LICENSING TOPICAL REPORT: APPLICATION OF PROBABILISTIC RISK ASSESSMENT IN THE SELECTION OF DESIGN BASIS ACCIDENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 50P. 1980

0674 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ TERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

SELENASTRUM-CAPRICORNUTUM

0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

SELF-CLEANING

0786 VANDERMEULEN,J.H., LONG,B.F.N., AHERN,T.P. BIOAVAILABILITY OF STRANDED AMOCO-CADIZ OIL AS A FUNCTION OF ENVIRONMENTAL SELF-CLEANING: APRIL 1978-JANUARY 1979 $ MAR ECOL LAB BEDFORD INST OCEANOGR DARTMOUTH NS AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 585-97 1979

SELLECK,R.E

0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.L. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

SEMANOV,G.N

0001 ABRAMZON;A.A., MURASHEV,I.A., SEMANOV,G.N. REQUIREMENTS FOR SURFACE-ACTIVE AGENTS (SAAS) USED AS PETROLEUM COLLECTORS $ LENSOVET TECHNOL INST LENINGRAD USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (6) P. 979-982 1980

0529 MURASHEV,I.A., SHOKIN,V.V., SEMANOV,G.N. USE OF SURFACTANTS AS COLLECTORS OF PETROLEUM $ USSR TR - TSENTR NAUCHNO-ISSLED INST MORSK FLOTA 257 P. 67-72 1980

SEMENOVA,I.N

0762 TALISMAN,L.V., SEMENOVA,I.N. PROBLEM OF THE INTRODUCTION OF WATER-GASOLINE EMULSIONS $ VSES NAUCHNO-ISSLED INST NEFT PROM MOSCOW USSR KHIM TEKHNOL TOPL MASEL (8) P. 27-30 1980

SEMPELS,J.M

1026 MCLAREN,P., BARRIE,W.B., SEMPELS,J.M. GEOMORPHOLOGY $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-7 OTTAWA ONTARIO 1981

SENDSTAD,E
0166 CARSTENS,T., SENDSTAD,E. OIL SPILL ON THE SHORE OF AN ICE-COVERED FJORD IN SPITSBERGEN $ RIVER AND HARBOUR LAB TRONDHEIM NORWAY IN: NORWEGIAN INST TECHNOL POAC 79: THE 5TH INTERNATIONAL CONF ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS VOL 2 P. 1227-1242 1979

SENGUPTA,R
0991 TOPGI,R.S., NORONHA,R.J., FONDEKAR,S.P., SENGUPTA,R. DISSOLVED PETROLEUM HYDROCARBONS ALONG THE OIL TANKER ROUTE IN THE SOUTHERN BAY OF BENGAL $ NATL INST OCEANOG DONA PAULA DAMAN AND DIU INDIA INDIAN JOURNAL OF MARINE SCIENCES 11 (2) P. 175-176 1982

SENSING
0169 CAVAGNARO,D.M. OIL POLLUTION DETECTION AND SENSING 1976-NOVEMBER 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-800997 187P. 1980

0943 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL POLLUTION DETECTION AND SENSING 1976-JANUARY 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-805797 232P. 1982

SENSITIVITIES
0298 GETTER,C.D., HAYES,M.O. THE COMPARATIVE SENSITIVITIES OF 5 UNITED-STATES ESTUARIES TO OIL AND HAZARDOUS MATERIALS SPILLS $ RES AND PLANNING INST COLUMBIA SC ESTUARIES 4 (3) 244P. 1981

SENSITIVITY
0341 HAYES,M.O., GUNDLACH,E.R., GETTER,C.D. SENSITIVITY RANKING OF ENERGY PORT SHORELINES $ UNIV OF SC COLUMBIA PORTS '80 SPEC CONF NORFOLK VA P. 697-709 1980

0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

0628 OWENS,E.H., RUBILLIARD,G.A. SHORELINE SENSITIVITY AND OIL SPILLS A RE-EVALUATION FOR THE 1980'S $ MARINE POLLUTION BULLETIN 12 (3) P. 75-78 1981

0884 ERNST,W.D., GUNDLACH,E.R., THEBEAU,L.C., SADD,J.L. SENSITIVITY OF COASTAL ENVIRONMENTS TO SPILLED OIL: SOUTHERN CAROLINA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-188061 47P. 1982

0891 FORD,R.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

SENSITIVITY
0905 HANSEN,D.J. THE RELATIVE SENSITIVITY OF SEA BIRD POPULATIONS IN ALASKA USA TO OIL SPILLS $ ALASKA OCS OFFICE BUREAU LAND MANAGEMENT ANCHORAGE ALASKA PROCEEDINGS OF THE 23RD ALASKA SCIENCE MEETING FAIRBANKS ALASKA USA 32 (0) P. 96-97 1981

0934 MILLER,S. ALASKAN USA BEAUFORT SEA COASTLINE SENSITIVITY ANALYSIS AND OIL SPILL RESPONSE MANUAL $ SOHIO ALASKAN PETROLEUM CO ANCHORAGE ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 173-175 1981

SENSITIZING
0717 SHEVELYAKOV,V.V., SIDENKO,A.T. SENSITIZING AND STIMULATING PROPERTIES OF THE COMPOUND LUBRICANT NO. 76 $ USSR NAUCH-TEKHN PROGRESS I OKHRANA TRUDA ZHENSHCHIN V PISHCH OTR ASLYAKH KHIM PROM-STI MINSK P. 142-4 1980

SENSORS
0258 FENNER,R.G., REID,S.C., SOLIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

SENTINEL
0154 BURNS,K.A., SMITH,J.L. BIOLOGICAL MONITORING OF AMBIENT WATER QUALITY THE CASE FOR USING BIVALVES AS SENTINEL ORGANISMS FOR MONITORING PETROLEUM POLLUTION IN COASTAL WATERS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ESTUARINE COASTAL AND SHELF SCIENCE 13 (4) P. 433-443 1981

SEPARATED
0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

SEPARATION
0175 CHMIELOWIEC,J., BESHAI,J.E., GEORGE,A.E. SEPARATION CHARACTERIZATION AND ANALYSIS OF POLYNUCLEAR-AROMATIC-HYDROCARBONRING CLASSES IN LLOYDMINSTER AND MEDICINE RIVER OILS $ UNIV OTTAWA DEPT CHEM OTTAWA ONTARIO FUEL 59 (12) P. 838-844 1980

0187 COLMAN,D.A., THEW,M.T., CORNEY,D.R. HYDROCYCLONES FOR OIL-WATER SEPARATION $ UNIV SOUTHAMPTON SOUTHAMPTON HAMPSHIRE ENGLAND IN: PRIESTLY,G., STEPHENS,H.S. PAPERS PRESENTED AT AN INTERNATIONAL CONF ON HYDROCYCLONES P. 143-165 1980

SEPARATION

0354 HU,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., RAU,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

0515 MEYERS,J.L. OIL WATER SEPARATION: GRAVITY PLATE SEPARATORS $ ENVIRON ENG LTD CEA CHEM ENG AUST CHE 5 (4) P. 36-38 1980-81

0651 POLLUTION SOLUTIONS ... INDUSTRIAL OIL SEPARATION $ EFFLUENT AND WATER TREATMENT JOURNAL 20 (11) P. 554-555 1980

0661 RAU,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HU,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

0737 SNAVELY,E.S. JR., YARBROUGH,H.F. OFFSHORE OILY WATER SEPARATION $ MOBIL RES AND DEV CORP USA SOC PET ENG AIME PAP SPE PROC MIDDLE EAST TECH CONF MANAMA BAHRAIN P. 31-36 1981

0758 SYLVESTER,N.D., BYESEDA,J.J. OIL/WATER SEPARATION BY INDUCED-AIR FLOTATION $ UNIV OF TULSA OKLA SPEJ SOC PET ENG J 20 (6) P. 579-590 1980

0827 ZAKOPRA,V.A., KUZAK,V.A., VYKHRESTYUK,N.I., TKALENKO,D.A. SEPARATION OF PETROLEUM CUTS AND LUBE OILS WITH DETERGENT ADDITIVES BY MEANS OF 2 STAGE CONTINUOUS LIQUID-CHROMATOGRAPHY $ ALL UNION PETR REFINING AND PETROCHEM IND RES AND DESIGN INST MOSCOW CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (11-1) P. 846-850 1979

0842 BERTHOU,F., FRIOCOURT,M.P. GAS-CHROMATOGRAPHIC SEPARATION OF DIA-STEREOMERIC-ISOPRENOIDS AS MOLECULAR MARKERS OF OIL POLLUTION $ LAB DE CHROMATOGRAPHIE SERVICE DE BIOCHIM BREST CEDEX FR

SEPARATORS

0442 LEHMANN,E.J. (ED) OIL BASE SEPARATORS (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ NTIS SPRINGFIELD VA PB-80-801947 132P. 1979

0443 LEHMANN,E.J. (ED) OIL WATER SEPARATORS (CITATIONS FROM THE NTIS DATA BASE) $ NTIS SPRINGFIELD VA PB-80-801939 148P. 1979

0515 MEYERS,J.L. OIL WATER SEPARATION: GRAVITY PLATE SEPARATORS $ ENVIRON ENG LTD CEA CHEM ENG AUST CHE 5 (4) P. 36-38 1980-81

0557 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1970-1980 (CITATIONS FROM THE ENGINEERING INDEX BASE) $ PB-81-802092 177P. 1981

0558 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1964-DECEMBER 1980 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-802134 163P. 1981

SEPARATORS
0559 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1973-SEPTEMBER 1980 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB-81-802969 172P. 1981

0682 KUSAHL,N., ECKNIG,W. GAS-CHROMATOGRAPHIC METHOD FOR DETERMINATION OF RESIDUAL OIL AFTER OIL SEPARATORS IN COMPRESSOR INSTALLATIONS $ VEB KUHLAUTOMAT BERLIN GER CHEMISCHE TECHNIK 32 (11) P 589-593 1980

0942 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL-WATER SEPARATORS 1973-NOVEMBER 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB82-805680 189P. 1982

0945 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1970-FEBRUARY 1982 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ PB82-805704 189P. 1982

0947 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1964-FEBRUARY 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-808148 170P. 1982

SERRAJIAN,N.M
0712 SERRAJIAN,N.M. ENVIRONMENTAL DATA ENERGY TECHNOLOGY CHARACTERIZATIONS: PETROLEUM $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 81P. 1980

SETO
0353 HIYAMA,Y. SURVEY OF THE EFFECTS OF THE SETO INLAND SEA OIL SPILL IN 1974 $ UNIV OF TOKYO JPN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 699-707 1979

SEX
0788 VASHCHENKO,M.A. EFFECTS OF OIL POLLUTION ON THE DEVELOPMENT OF SEX CELLS IN SEA-URCHINS $ ACAD SCI USSR HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 297-30 1980

SEXSTONE,A
0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,D., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1980

SEXTON,W.J
0227 D'OZOUVILLE,L., HAYES,M.O., GUNDLACH,E.R., SEXTON,W.J., MICHEL,J. OCCURRENCE OF OIL IN OFFSHORE BOTTOM SEDIMENTS AT THE AMOCO-CADIZ OIL SPILL SITE $ CENT NATL POUR L'EXPLOIT DES OCEANS BREST FR PROC - OIL SPILL CONF LOS ANGELES CALIF P. 187-192 1979

SHALE-OIL
0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

SHALE-OIL
0901 GREGG,C.T., TIFTJEN,G., HUTSON,J.Y. PRENATAL TOXICOLOGY OF SHALE-OIL RETORT WATER IN MICE $ UNIV CALIF LOS ALAMOS LOS ALAMOS NATL LAB LOS ALAMOS NM JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 795-804 1981

SHALE-OILS
0415 KUCHERENKO,L.A., KAMYSHOVA,V.K. DEPENDENCE OF THE TOXIC AND PROTECTIVE PROPERTIES OF SHALE-OILS ON THEIR CONTENTS OF WATER SOLUBLE PHENOLS $ MV LOMONO SOV STATE UNIV MOSCOW JOURNAL OF APPLIED CHEMISTRY OF THE USSR 54 (1) P. 112-114 1981

SHALLOW
0380 JACQUES,J.M., RENSON,M., DELMOTTE,A. THE DEVELOPMENT OF A MODEL FOR BIOLOGICAL CONTROL OF SHALLOW TROPICAL WATERS SUBJECTED TO PETROLEUM THREATS $ NAECON NV DRONGEN BELGIUM IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 727-735 1981

0756 SUTER,W.R. AUTOMATIC DIVERTER REDUCES SHALLOW BLOWOUT HAZARD $ WORLD OIL 182 (5) 53P. 1976

SHAPE
0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.M. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

SHAKKOV,E.A
0077 BESPALOVA,E.A., MILITSKIY,V.A., PUKHOVSKAYA,I.V., MIROVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (10) P. 54-58 1978

SHARP,J.J
0713 SHARP,J.J. OIL BOOMS AND SKIMMER WALLS A COMPARISON $ MEM UNIV NEWFOUNDLAND ST-JOHNS NEWFOUNDLAND CANADA JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION-ASCE 106 (5) P. 991-995 1980

0714 SHARP,J.J. OIL BOOMS AND SKIMMER WALLS A COMPARISON DISCUSSION $ MEM UNIV NEWFOUNDLAND ST-JOHNS NEWFOUNDLAND CANADA JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION-ASCE 107 (6) 1329P. 1981

SHARP,J.M
0977 SHARP,J.M., APPAN,S.G. THE CUMULATIVE ECOLOGICAL EFFECTS OF NORMAL OFFSHORE PETROLEUM OPERATIONS CONTRASTED WITH THOSE RESULTING FROM CONTINENTAL SHELF OIL SPILLS $ GULF UNIV RES CONSORTIUM HOUSTON TX PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 309-322 1982

SHARP,R.K
0374 INGRAO,M.C., HEIDERSBACH,R.H., SHARP,R.K. PIPELINE TRANSPORTATION SAFETY R AND D WORKING GROUP MEETING PROCEEDINGS HELD AT CAMBRIDGE MASSACHUSETTS ON JUNE 30-JULY 1 1980 $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-81-151359 70P. 1980

SHAW,D.G
0715 SHAW,D.G., CLEMENT,L.E., MCINTOSH,D.J. SOME EFFECTS OF PETROLEUM ON NEARSHORE ALASKAN MARINE ORGANISMS $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB-81-159147 93P. 1981

0987 STEKOLL,M.S., CLEMENT,L.E., SHAW,D.G. SUBLETHAL EFFECTS OF CHRONIC OIL EXPOSURE ON THE INTERTIDAL CLAM 'MACOMA-BALTHICA' $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB82-158163 12P. 1982

SHCHEKATURINA,T.L
0520 MIRONOV,O.G., SHCHEKATURINA,T.L., YANOV,B.G., STEPANETS,L.G. USE OF MUSSELS IN PURIFICATION OF OIL CONTAINING SEA WATERS $ NEFTYANOE KHOZYAISTVO (6) P. 63-65 1981

SHEARLS,E.A
0067 BENDER,M.E., SHEARLS,E.A., HUGGETT,R.J., MURRAY,L. ECOLOGICAL EFFECTS OF EXPERIMENTAL OIL SPILLS IN EASTERN COASTAL PLAIN ESTUARIES $ VA INST OF MAR SCI GLOUCESTER POINT ENVIRON INT 3 (2) P. 121-133 1980

SHEEHAN,D.F
0738 SNIDER,M.D., SHEEHAN,D.F., JOHNSON,E.K. OVERVIEW OF CURRENT AND PROPOSED TANK VESSEL SAFETY AND POLLUTION PREVENTION MEASURES $ US COAST GUARD SEATTLE WASH PROC - SHIP TECHNOL AND RES (STAR) SYMP 4TH P. 93-119 1979

SHEFNER,A.M
0716 SHEFNER,A.M. RESPIRATORY CARCINOGENICITY OF DIESEL-FUEL EMISSIONS $ IIT RESEARCH INST CHICAGO IL PB-81-230955 35P. 1981

SHEPPARD,R.J
0177 CLAUSSE,M., BONED,C., PEYRELASSE,J., LAGOURETTE,B., MCCLEAN,V., SHEPPARD,R.J. DIELECTRIC AND CONDUCTIVE PROPERTIES OF WATER-IN-OIL TYPE MICRO-EMULSIONS $ UNIV PAU AND PAYS ADOUR INST TECH SCI DEPT PHYS THERMODYNAM LAB PAU FRANCE IN: SHAH,D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 199-228 1981

SHERRY,J.P
0710 SCOTT,B.F., NAGY,E., SHERRY,J.P., DUTKA,B.J., GLODSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER $ NAIL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

SHEVELEVA,T.I
0100 BOGORODSKII,V.V., SHEVELEVA,T.I., TARASHKEVICH,V.N. DAMPING OF WATER-WAVES BY SURFACE OIL FILMS $ ARCT AND ANTARCT RES INST LENINGRAD USSR DOKLADY AKADEMII NAUK SSSR 255 (1) P. 196-201 1980

SHEVELEVA,T.Y
0978 SHEVELEVA,T.Y., KROPOTKIN,M.A., LEUS,N.B. METHOD OF MEASURING THE THICKNESS OF AN OIL FILM ON A WATER BASIN $ SOV METEOROL HYDROL (3) P. 72-74 1980

SHEVELYAKOV,V.V
0717 SHEVELYAKOV,V.V., SIDENKO,A.T. SENSITIZING AND STIMULATING PROPERTIES OF THE COMPOUND LUBRICANT NO. 76 $ USSR NAUCH-TEKHN PROGRESS I OKHRANA TRUDA ZHENSHCHIN V OSNOV OTR ASLYAKH KHIM PROM-ST1 MINSK P. 142-4 1980

SHIDELER,G.L
0073 BERRYHILL,H.L. JR., SHIDELER,G.L., HOLMES,C.W., BARNES,S.S., HILL,G.W. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975: AN ATLAS AND INTEGRATED SUMMARY $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-217763 325P. 1977

SHIELDS,M.I
0425 LASETER,J.L., LAWLER,G.C., OVERTON,E.B., PATEL,J.K., HOLMES,J.P., SHIELDS,M.I., MABERRY,M. CHARACTERIZATION OF ALIPHATIC AND AROMATIC-HYDROCARBONS IN FLAT AND JAPANESE TYPE OYSTERS AND ADJACENT SEDIMENTS COLLECTED FROM L'ABER-WRAC'H (FRANCE) FOLLOWING THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLO. INT P. 633-44 1979

SHINN,J.H
0718 SHINN,J.H., CEDERWALL,R.T. SELECTING OPTIMUM PERIODS FOR ATMOSPHERIC DISPERSION TESTS OVER WATER SURFACES AT FRENCHMAN FLAT NEVADA TEST SITE $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 12P. 1981

0719 SHINN,J.H. ENVIRONMENTAL ISSUES OF THE PROPOSED LNG SPILL TESTS AT FRENCHMAN FLATS: LNG WORKING GROUP REPORT NO. 1 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 15P. 1981

SHIOSAKI,K
0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

SHIP
0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

SHIPHANDLING
0191 COOK,R.C., MARINO,K.L., COOPER,R.B. A SIMULATOR STUDY OF DEEPWATER PORT SHIPHANDLING AND NAVIGATION PROBLEMS IN POOR VISIBILITY $ COAST GUARD WASHINGTON, D.C. AD-A100-656/8 190P. 1981

SHIPPING

0039 AUNE,A.B., VLIETSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS $ PUB: NORTH HOLLAND PUBL CO JAN VAN GALENSTRAAT AMSTERDAM NETH 441P. 1980

SHIPS

0401 KEILLOR,J.P. THE HAZARDS OF TANK SHIPS AND BARGES TRANSPORTING PETROLEUM PRODUCTS ON THE GREAT-LAKES $ UNIV WISCONSIN INST SEA GRANT MADISON WI COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 319-336 1980

0602 NOBUNAGA,H. ANTI-OCEAN-POLLUTION EQUIPMENT AND SHIPS FOR RECOVERING SPILT OIL $ WORKSHIP DES DEP ISHIKAWAJIMA-HARIMA HEAVY IND CO LTD TOKYO JAPAN NENRYO OYOBI NENSHO 47 (8) P. 651-68 1980

0880 EDDIE,A.G.F. RISK ANALYSIS OF BERTHING ACCIDENTS INVOLVING LARGE SHIPS $ CONNELL EDDIE AND ASSOC MELBOURNE AUSTRALIA IN: PERMANENT INT ASSOC NAV CONGRESSES P. I-9 1981

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.K., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMURRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

1109 LIDGREN,K., NORRBY,S. OIL AND CHEMICAL POLLUTION FROM SHIPS ECONOMICS AND CONTROL MEASURES $ THE MINISTRY OF AGRICULTURE SWEDEN 1980

1135 ANONYMOUS GUIDANCE NOTES FOR THE CONSTRUCTION AND CLASSIFICATION OF OIL RECOVERY SHIPS $ LLOYD'S REGISTRY OF SHIPPING LONDON 1980

SHIU,W.Y

0091 BOBRA,A., MACKAY,D., SHIU,W.Y. DISTRIBUTION OF HYDROCARBONS AMONG OIL WATER AND VAPOR PHASES DURING OIL DISPERSANT TOXICITY TESTS $ UNIV OF TORONTO ONT BULL ENVIRON CONTAM TOXICOL 23 (4-5) P. 558-565 1979

0185 COHEN,Y., MACKAY,D., SHIU,W.Y. MASS-TRANSFER RATES BETWEEN OIL SLICKS AND WATER $ UNIV TORONTO INST ENVIRONM STUDIES TORONTO ONTARIO CANADA CANADIAN JOURNAL OF CHEMICAL ENGINEERING 58 (5) P. 569-575 1980

SHOALS

0357 HOFFMAN,E.J., QUINN,J.G. A COMPARISON OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS FROM NANTUCKET SHOALS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231508 12P. 1981

SHOKIN,V.V

0529 MURASHEV,I.A., SHOKIN,V.V., SEMANOV,G.N. USE OF SURFACTANTS AS COLLECTORS OF PETROLEUM $ USSR TR - TSENTR NAUCHNO-ISSLED INST MORSK FLOTA 257 P. 67-72 1980

SHORE

0166 CARSTENS,T., SENDSTAD,E. OIL SPILL ON THE SHORE OF AN ICE-COVERED FJORD IN SPITSBERGEN $ RIVER AND HARBOUR LAB TRONDHEIM NORWAY IN: NORWEGIAN INST TECHNOL PUAL 79: THE 5TH INTERNATIONAL CONF ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS VOL 2 P. 1227-1242 1979

SHORELINE

0263 FINKELSTEIN,K., GUNDLACH,E.R. METHOD FOR ESTIMATING SPILLED OIL QUANTITY ON THE SHORELINE $ UNIV S CAROLINA DIV COASTAL RES COLUMBIA SC ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (5) P. 545-54 1981

0628 OWENS,E.H., RUEILLIARD,G.A. SHORELINE SENSITIVITY AND OIL SPILLS A RE-EVALUATION FOR THE 1980'S $ MARINE POLLUTION BULLETIN 12 (3) P. 75-78 1981

1023 WOODWARD-CLYDE CONSULTANTS SHORELINE COUNTER-MEASURES $ BAFFIN ISLAND OIL SPILL WORKING REPORT # BIOS-80-4 OTTAWA ONTARIO 1981

SHORELINES

0159 CANEVARI,G.P. RESTORATION OF OILED SHORELINES BY THE PROPER USE OF CHEMICAL DISPERSANTS $ EXXON RES AND ENG CO FLORHAM PARK NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 443-446 1979

0341 HAYES,M.O., GUNDLACH,E.R., GETTER,C.D. SENSITIVITY RANKING OF ENERGY PORT SHORELINES $ UNIV OF SC COLUMBIA PORTS '80 SPEC CONF NORFOLK VA P. 697-709 1980

0479 MACKAY,D., WATSON,A., YG,C., VADEAU,S. BEHAVIOR AND EFFECTIVENESS OF DISPERSANTS AT SEA AND AT SHORELINES $ UNIV OF TORONTO ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 447-452 1979

0856 BREJEL,A. (ED.) OIL SPILL CLEANUP AND PROTECTION TECHNIQUES FOR SHORELINES AND MARSH LANDS $ POLLUT TECHNOL REV (78) 404P. 1981

SHORT-TERM

0405 KINAKO,P.D.S. SHORT-TERM EFFECTS OF OIL POLLUTION ON SPECIES NUMBERS AND PRODUCTIVITY OF A SIMPLE TERRESTRIAL ECOSYSTEM $ UNIV PORT HARCOURT SCH BIOL SCI PORT HARCOURT ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 87-91 1981

0623 URDZIK,C.J., GAROFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

0908 HEDIKE,S.F., PUGLISI,F.A. SHORT-TERM TOXICITY OF 5 OILS TO 4 FRESH-WATER SPECIES $ US EPA ENVIRONMENTAL RES LAB DULUTH MN ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (4) P. 425-430 1982

SHORT-TERM
0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

SHRIMPS
0199 COUCH,J.A. SHRIMPS (ARTHROPODA:-CRUSTACEA:- PENAEIDAE) $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-80-185259 26P. 1979

SHUTEK,L.M
0599 NESTEROVA,M.P., ANUFRIEVA,N.M., GORITSKII,A.B., SHUTEK,L.M., VERLINSKAYA,R.M. REMOVAL OF OIL POLLUTANTS FROM WATER BODIES BY MEANS OF HYDROPHOBIC SORBENTS $ WATER RESOUR 7 (4) P. 375-379 1980

SICLARI,R.J
0307 GOODIER,J.L., SICLARI,R.J., GARRITY,P.A. FUEL CONSERVATION BY THE APPLICATION OF SPILL PREVENTION AND FAILSAFE ENGINEERING: A GUIDELINE MANUAL $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 332P. 1981

0899 GOODIER,J.L., SICLARI,R.J. COMBUSTION: AN OIL SPILL MITIGATION TOOL PHASE II THE BURNING OF THE M/T BURMAH-AGATE (EX-DANALAND) $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 134P. 1981

SICZEK,A.A
0386 JOHNSON,I., MYLES,K.M., SICZEK,A.A. SAMPLING AND ANALYSIS OF HYDROCARBONS IN COMBUSTION GASES QUARTERLY REPORT APRIL-JUNE 1980 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1980

SIDENKO,A.T
0717 SHEVELYAKOV,V.V., SIDENKO,A.T. SENSITIZING AND STIMULATING PROPERTIES OF THE COMPOUND LUBRICANT NO. 76 $ USSR NAUCH-TEKHN PROGRESS I OKHRANA TRUDA ZHENSHCHIN V OSNOV OTR ASLYAKH KHIM PROM-STI MINSK P. 142-4 1980

SIEBURTH,J.M.C.N
0868 CARON,D.A., SIEBURTH,J.M.C.N. RESPONSE OF PERITRICHOUS-CILIATES IN FOULING COMMUNITIES TO SEAWATER ACCOMMODATED HYDROCARBONS $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-181850 23P. 1982

SIERKA,R.A
0720 SIERKA,R.A., SAADATI,A. PHYSICAL-CHEMICAL TREATMENT OF OIL-SHALE RETORT WATER $ UNIV OF ARIZ TUCSON USA PROC OF THE SPEC CONF - WATER FORUM '81 2 P. 902-909 1981

SIFFERT,B
0963 PAPIRER,E., BOURGEOIS,C., SIFFERT,B., BALARD,H. CHEMICAL NATURE AND WATER OIL EMULSIFYING PROPERTIES OF ASPHALTENES $ CTR RECH PHYS CHIM SURFACES SOLIDES MULHOUSE FRANCE FUEL 61 (8) P. 732-734 1982

SILADY,F.A
0264 FLEMING,K.N., SILADY,F.A., HAVNAMAN,G.W. TREATMENT OF OPERATOR ACTIONS IN THE HTGR RISK ASSESSMENT STUDY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 21P. 1979

SILEO,L
0886 FLEMING,W.J., SILEO,L., FRANSON,J.C. TOXICITY OF PRUDHOE-BAY CRUDE-OIL TO SANDHILL CRANES $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD JOURNAL OF WILDLIFE MANAGEMENT 46 (2) P. 474-478 1982

SILVESTRO,E
0724 SILVESTRO,E., CROCKER,M. TOXICITY OF CHEMICAL COMPOUNDS USED FOR ENHANCED OIL RECOVERY $ ENERGY RESOUR CO INC CAMBRIDGE MA 198P. 1980

SILVUS,H.S
0721 SILVUS,H.S. JR., NEWMAN,P.M., FRAZAK,J.H. DEVELOPMENT OF OIL-IN-WATER MONITOR PHASE II $ ENVIRONMENTAL MONITORING AND SUPPORT LAB CINCINNATI OHIO PB-80-226251 47P. 1980

SIMENSTAD,C.A
0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

SIMON-KENTON
0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

SIMONSEN,B.L
0369 HUTCHISON,J.H., SIMONSEN,B.L. CLEANUP OPERATIONS AFTER THE 1976 SS-SANSINENA EXPLOSION AN INDUSTRIAL PERSPECTIVE $ IT CORP WILMINGTON CALIF PROJ - OIL SPILL CONF LOS ANGELES CALIF P. 429-434 1979

SIMPSON,K.W
0723 SIMPSON,K.W. ABNORMALITIES IN THE TRACHEAL GILLS OF AQUATIC INSECTS COLLECTED FROM STREAMS RECEIVING CHLORINATED OR CRUDE-OIL WASTES $ NEW YORK STATE DEPT HLTH DIV LABS AND RES ALBANY NY FRESHWATER BIOLOGY 10 (6) 581P. 1980

SIMULATION
0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KROGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

0240 DEPARTMENT OF ENERGY WASHINGTON, D.C. LIQUIFIED-NATURAL-GAS WIND-TUNNEL SIMULATION AND INSTRUMENTATION ASSESSMENTS $ 366P. 1978

SIMULATION

0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

0375 INMAN,D.W., HENRY,J., MELVILLE,P. SIMULATION AND QUEUING MODELS TO ASSIST PLANNING OF ACCIDENT AND EMERGENCY SERVICES $ NE THAMES REGIONAL HLTH AUTHORITY CAVELL ST LONDON ENGL IN: GREMY,F., DEGOULET,P., BARBER,B., SALAMON,R. MEDICAL INFORMATICS EUROPE 81 11 P. 266-274 1981

0402 KEITH,V.F. REAL TIME SIMULATION OF OIL TANKER OPERATIONS IN VALDEZ ALASKA $ ECO INC ANNAPOLIS MD IN: SOC COMP SIMULAT PROCEEDINGS OF THE 1980 SUMMER COMPUTER SIMULATION CONFERENCE P. 405-410 1980

0757 SVENDSEN,J.A., EGRUHOLT,E.M. INTERACTIVE SIMULATION OF OIL SPILL RECOVERY OPERATIONS $ SHIP RES INST NORWAY TRONDHEIM NORWAY IN: AUNE,A.B., VLIETSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS P. 321-327 1980

0778 TSAHALIS,D.T. CONTINGENCY PLANNING FOR OIL SPILLS: RIVERSPILL A RIVER SIMULATION MODEL $ SHELL DEV CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 27-36 1979

0898 GLASS,A.W., HORTON,B.R. "SLIKTRAK" COMPUTER SIMULATION OF SURFACE POLLUTION PROBLEMS ARISING FROM OFFSHORE OIL SPILLS $ SHELL INT PET MAATSCH THE HAGUE NETH PROC OF THE WORLD PET CONGR 10TH 5 P. 3-12 1980

SIMULATOR

0191 COOK,R.C., MARINO,K.L., COOPER,R.B. A SIMULATOR STUDY OF DEEPWATER PORT SHIPHANDLING AND NAVIGATION PROBLEMS IN POOR VISIBILITY $ COAST GUARD WASHINGTON, D.C. AD-A100-656/8 190P. 1981

SIMULTANEOUS

0180 CHANG,H.R., REID,R.C. SIMULTANEOUS BOILING AND SPREADING OF LIQUEFIED-PETROLEUM-GAS ON WATER FINAL REPORT DECEMBER 12 1978-MARCH 31 1981 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 38P. 1981

SINCLAIR,J.R

0333 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. DISPOSAL SYSTEMS FOR OIL RECOVERED FROM MARINE SPILLS $ SCS ENG LONG BEACH CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 15-28 1978

0334 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. OIL SPILL DEBRIS DISPOSAL HARDWARE SYSTEMS: METHODS FOR CONCEPTUALIZATION AND DEVELOPMENT $ SCS ENG LONG BEACH CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 507-513 1979

SINDERMANN,C.J

0979 SINDERMANN,C.J. IMPLICATIONS OF OIL POLLUTION IN PRODUCTION OF DISEASE IN MARINE ORGANISMS $ NOAA NATL MARINE FISHERIES SERV SANDY HOOK NJ PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY OF LONDON SERIES B-BIOLOGICAL SCIENCES 297 (1087) P. 385-399 1982

SINIFF,D.B
0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

SINKING
0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

SIRIANNI,A.F
0673 RIPMEESTER,J.A., SIRIANNI,A.F. RECOVERY OF WATER AND BITUMEN FROM THE ATHABASCA OIL SAND TAILINGS PONDS $ NATL RES COUNCIL CANADA ONT JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (1) P. 131-133 1981

SIROTA,G.R
0725 SIROTA,G.R., OTHE,J.F., COOKE,M. (ED), DENNIS,A.J. (ED) POLYNUCLEAR-AROMATIC-HYDROCARBON CONTAMINATION IN MARINE SHELL $ HALIFAX LAB DEP FISH OCEANS HALIFAX NS CAN CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 329-41 1981

SITING
0239 DEPARTMENT OF ENERGY WASHINGTON, D.C. REFINERY SITING WORKBOOK: APPENDICES C TO D $ MITTELHAUSER CORP EL TORO CA 642P. 1980

SIZEMORE,R.K
0726 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME IV BACTERIAL COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192429 63P. 1980

0727 SIZEMORE,R.K., OLSEN,K. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME III BACTERIOLOGY OF A GULF OF MEXICO GAS AND OIL FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192189 54P. 1980

0978 DEVEREUX,R., SIZEMORE,R.K. PLASMID INCIDENCE IN MARINE BACTERIA ISOLATED FROM PETROLEUM POLLUTED SITES ON DIFFERENT PETROLEUM HYDROCARBONS $ UNIV N CAROLINA DEPT BIOL WILMINGTON NC MARINE POLLUTION BULLETIN 13 (6) P. 198-202 1982

SJOEN,K
1126 RANNELOP,T.K., SJOEN,K. HYDRODYNAMICS OF UNDER-WATER BLOWOUTS $ AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS NEW YORK NY 1980

SKAALEN,C.I
0728 SKAALEN,C.I., RAUSCH,A.B. ENGINEERING EVALUATION OF SORBENT DISPENSING/COLLECTION SYSTEM UNIVERSAL MOUNTING ARRANGEMENT $ CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA AD-A078-431/4 46P. 1979

SKAGIT
0257 PEELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

SKELETONEMA-COSTATUM
0398 KARYDIS,M. THE TOXICITY OF CRUDE-OIL FOR THE MARINE ALGA SKELETONEMA-COSTATUM (GREVILLE) CLEVE IN RELATION TO NUTRIENT LIMITATION $ DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE HYDROBIOLOGIA 85 (2) P. 137-143 1981

SKIMMER
0107 BRESLIN,M.K. PERFORMANCE TESTS OF HIGH SPEED ZRV OIL SKIMMER $ COAST GUARD WASHINGTON, D.C. AD-A088-062/5 156P. 1980

0303 GILL,S.D., RYAN,W. ASSESSMENT OF THE ACW-400 OIL SKIMMER BY THE CANADIAN COAST GUARD FOR OIL SPILL COUNTERMEASURE OPERATIONS $ CAN COAST GUARD EMERG OTTAWA ONT PROG - OIL SPILL CONF LOS ANGELES CALIF P. 497-499 1979

0426 LAU,Y.L. OIL BOOMS AND SKIMMER WALLS A COMPARISON DISCUSSION $ NATL WATER RES INST DIV HYDR RES ENVIRONM HYDR SECT BURLINGTON ONTARIO CAN JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION- ASCE 107 (3) 605P. 1981

0449 LICHTE,H.W. PERFORMANCE TESTING OF THE SOVIET OIL/DEBRIS SKIMMER $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-244790 42P. 1981

0713 SHARP,J.J. OIL BOOMS AND SKIMMER WALLS A COMPARISON $ MEM UNIV NEWFOUNDLAND ST-JOHNS NEWFOUNDLAND CANADA JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION-ASCE 106 (5) P. 991-995 1980

0714 SHARP,J.J. OIL BOOMS AND SKIMMER WALLS A COMPARISON DISCUSSION $ MEM UNIV NEWFOUNDLAND ST-JOHNS NEWFOUNDLAND CANADA JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION-ASCE 107 (6) 1329P. 1981

0921 LICHTE,H.W., BORST,M., SMITH,G.F. TESTS OF THE SHELL SOCK SKIMMER ABOARD USNS POWHATAN $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OH PB82-220849 92P. 1981

SKIMMERS
0085 BLACKBOURN,S.R. TEXAS 1979 EXPERIENCE WITH MARCO FILTERBELT SKIMMERS ON IXTOC-1 AND BURMAH-AGATE CRUDE OIL-SPILLS $ MARCO SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S P. 398-406 1980

SKIMMERS

0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

0949 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL: DISPERSANTS ABSORBANTS BOOMS AND SKIMMERS 1978-JANUARY 1982 (CITATIONS FROM THE INFORMATION RETRIEVAL LTD DATA BASE) $ PB82-859125 78P. 1982

1013 ENVIRONMENTAL PROTECTION SERVICE AN EVALUATION OF OIL SKIMMERS AND PUMPS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-4 OTTAWA ONTARIO 1981

1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174402 1980

SKIMMING

0450 LICHTE,H.W., BRESLIN,M.K., SMITH,G.F., GRAHAM,D.J., URBAN,R.W. PERFORMANCE TESTING OF FOUR SKIMMING SYSTEMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101353 92P. 1981

0451 LICHTE,H.W. SKIMMING BARRIER PERFORMANCE EVALUATION: OFFSHORE VERSION AND HARBOR VERSION $ MASON AND HANGER-SILAS MASON CO LEONARDO NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 489-492 1979

SLICK

0188 COMFORT,G., MENON,B., PURVES,W.F. FEASIBILITY OF WATER-SPRAY-BARRIERS AS FIREPROOF OIL SLICK CONTAINMENT DEVICES $ ARCTEC CAN LTD KANATA ONT OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S SEATTLE WASH P. 422-427 1980

0445 LEHR,W.J., CEKIRGE,H.M. OIL SLICK MOVEMENTS IN THE ARABIAN-GULF $ PETR AND MINERALS UNIV DEPT MATH SCI DHAHRAN SAUDI ARABIA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 737-741 1981

0468 LIU,H.T., LIN,J.T. EFFECTS OF AN OIL SLICK ON WIND WAVES $ FLOW RES CO KENT WASH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 665-674 1979

0565 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SLICK MOVEMENT 1964-JUNE 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-807570 50P. 1981

0624 USAMOK,C.A. OIL SLICK DISPERSAL MECHANICS: SPREADING DISSOLUTION AND CHEMICAL DISPERSION $ RUTGERS UNIV THE STATE UNIV OF NEW JERSEY NEW BRUNSWICK NJ 442P. 1981

0625 USAMOK,C.A., AHLERT,R.C. OIL SLICK DISPERSAL MECHANICS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-105560 238P. 1981

SLICK

0761 TAKAHASHI,T., KITAMURA,Y., NAKADA,K. SPREADING OF OIL SLICKS ON CALM WATER SURFACES EFFECT OF THE VISCOUS DRAG OF AN OIL SLICK ON ITS SPREADING RATE $ OKAYAMA UNIV JPN INT CHEM ENG 21 (2) P. 244-250 1981

0767 THOMPSON,G.B., WU,R.S.S. TOXICITY TESTING OF OIL SLICK DISPERSANTS IN HONG-KONG $ FISHERIES RES STN ABERDEEN HONG KONG MARINE POLLUTION BULLETIN 12 (7) P. 233-237 1981

1144 HUNTER,J.K. AN INTERACTIVE COMPUTER MODEL OF OIL SLICK MOTION $ JOURNAL OF OCEANOLOGY INTERNATIONAL 1980

1145 ARCHER,S.J. DRIFT INTERACTIVE COMPUTER MODEL FOR PREDICTING OIL SLICK MOVEMENT $ OFFSHORE ENVIRONMENTAL SYSTEMS LTD UK 1980

SLICKS

0185 COHEN,Y., MACKAY,D., SHIU,W.Y. MASS-TRANSFER RATES BETWEEN OIL SLICKS AND WATER $ UNIV TORONTO INST ENVIRONM STUDIES TORONTO ONTARIO CANADA CANADIAN JOURNAL OF CHEMICAL ENGINEERING 58 (5) P. 569-575 1980

0215 DEUTSCH,M., VOLLMERS,R.R., DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

0310 GOUILLOUD,M.R. OIL SLICKS ENVIRONMENTAL COMPENSATION $ UNIV PARIS FRANCE IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 67-76 1981

0427 LAU,Y.L., ENGEL,P. CONTROL OF OIL SLICKS IN FLOWING WATER USING AIR BUBBLE BARRIERS $ NATL WATER RES INST DIV HYDRAUL RES BURLINGTON ONTARIO CANADA CANADIAN JOURNAL OF CIVIL ENGINEERING 7 (2) P. 397-405 1980

0510 MEEKS,D.G. PERFORMANCE OF SOME OIL DISPERSANTS ON OIL SLICKS OF VARYING THICKNESS $ BRITISH PETR CO LTD BP RES CTR CHERTSEY RD SUNBURY ON THAMES MIDDLESEX ENGLAND MARINE POLLUTION BULLETIN 11 (12) P. 348-352 1980

0755 SUNDARAM,T.R. SPREAD OF OIL SLICKS ON A NATURAL BODY OF WATER $ TS ASSOCIATES INC COLUMBIA MD JOURNAL OF HYDRONAUTICS 14 (4) P. 124-126 1980

0761 TAKAHASHI,T., KITAMURA,Y., NAKADA,K. SPREADING OF OIL SLICKS ON CALM WATER SURFACES EFFECT OF THE VISCOUS DRAG OF AN OIL SLICK ON ITS SPREADING RATE $ OKAYAMA UNIV JPN INT CHEM ENG 21 (2) P. 244-250 1981

0916 KITAMURA,Y., TAKAHASHI,T. WIND INDUCED DRIFT OF OIL SLICKS SPREAD ON WATER SURFACE $ OKAYAMA UNIV DEPT IND CHEM OKAYAMA JAPAN KAGAKU KOGAKU RONBUNSHU 8 (2) P. 194-196 1982

0990 SUNDARAM,T.R. SPREADS OF OIL SLICKS ON A NATURAL BODY OF WATER REPLY $ TS ASSOCIATES INC COLUMBIA MD AIAA JOURNAL 20 (3) P. 446-448 1982

SLICKS

0994 WALDMAN,G.D., FANNELOP,T.K. SPREADS OF OIL SLICKS ON A NATURAL BODY OF WATER COMMENT $ AVCO SYST DIV WILMINGTON MA AIAA JOURNAL 20 (3) 447P. 1982

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

1009 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASE I - LITERATURE REVIEW AND FEASIBILITY STUDY $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-81-3 OTTAWA ONTARIO 1981

1146 MACKAY,D. THREE DIMENSIONAL DIFFUSION OF DISSOLVED AND DISPERSED OIL IN THE WATER COLUMN UNDER OIL SLICKS $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1980

SLIKFORCAST

0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KRUGER,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

SLIKTRAK

0898 GLASS,A.W., HUNTON,B.K. 'SLIKTRAK' COMPUTER SIMULATION OF SURFACE POLLUTION PROBLEMS ARISING FROM OFFSHORE OIL SPILLS $ SHELL INT PET MAATSCH THE HAGUE NETH PROC OF THE WORLD PET CONGR 10TH 5 P. 3-12 1980

SLIWINSKI,A

0981 SLIWINSKI,A. POSSIBILITIES OF THE USE OF ACOUSTIC MEASUREMENT METHODS IN THE EXAMINATION OF OIL SPILLS ON THE SEA $ POL (PL) STUD WATER OCEANOL 35 P. 159-80 1981

SLUDGE

1114 DUNVIER,P.E. SLUDGE FARMING A TECHNIQUE FOR THE DISPOSAL OF OILY REFINERY WASTES $ CONCAWE 1980

SLUDGES

0854 BROWN,K.W., BRAWAND,H., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 257-261 1982

SMALL,M.J

0729 SMALL,M.J., LAMBERT,W.P. A STOCHASTIC PROCEDURE FOR ALLOCATION OF FUNDS FOR TOXICOLOGICAL AND ENVIRONMENTAL RESEARCH ON THE BASIS OF HAZARD ASSESSMENT $ ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB FORT DETRICK MD AD-A091-688/2 8P. 1979

SMALLWOOD,C

1001 YANG,W.F., CHAO,A., SMALLWOOD,C. JR. LAND TREATMENT OF OILY WASTES REDUCTION OF CRUDE-OIL IN SOILS $ INST ENVIRON ENG NATL TAIWAN UNIV TAIPEI TAIWAN TW PROC IND WASTE CONF 36 P. 2549 1982

SMEDES,G

0730 SMEDES,G., CALMAN,J., BEEBE,J. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME X HYDRODYNAMIC MODELING $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-193229 115P. 1980

SMEDLEY,J.B

1033 MACKAY,D., KRISTMANSON,D.D., PICOT,J.J.C., SMEDLEY,J.B. THEORETICAL ASSESSMENT AND DESIGN STUDY OF THE AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-5 OTTAWA ONTARIO 1980

SMIRNOVA,A.V

0731 SMIRNOVA,A.V., PLOTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

SMIT,J.A

0917 KOOMAN,C., DEBRUIN,D., SMIT,J.A. TRAFFIC ACCIDENTS AND SAFETY MEASURES ON DUTCH WATERWAYS $ PUBL WORKS DEPT DELTA DEPT DIV ENGN BERGEN OP ZOOM NETHERLANDS IN: PERMANENT INT ASSOC NAV CONGRESSES II P. 313-333 1981

SMITH,C.J

0732 SMITH,C.J., DELAUNE,R.D., PATRICK,W.H. A METHOD FOR DETERMINING STRESS IN WETLAND PLANT COMMUNITIES FOLLOWING AN OIL SPILL $ LOUISIANA STATE UNIV CTR WETLAND RESOURCES WETLAND SOILS AND SEDIMENTS LAB BATON ROUGE LA ENVIRONMENTAL POLLUTION SERIES A-ECOL AND BIOL 26 (4) P. 297-304 1981

SMITH,G.A

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

SMITH,G.F

0095 BURST,M., SMITH,G.F. DISPERSANT APPLICATION SYSTEM FOR THE US COAST GUARD 32-FOOT WPB (WATERWAYS PATROL BOAT) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101684 32P. 1981

0272 FOSTER,D.M., SCHWARTZ,S.H., SMITH,G.F. A STATISTICAL EVALUATION OF DISPERSANT TESTING $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-226128 39P. 1981

0450 LICHTE,F.W., BRESLIN,M.K., SMITH,G.F., GRAHAM,D.J., URBAN,R.H. PERFORMANCE TESTING OF FOUR SKIMMING SYSTEMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101353 92P. 1981

SMITH,G.F

0733 SMITH,G.F. DEPLOYMENT CONFIGURATIONS FOR IMPROVED OIL CONTAINMENT WITH SELECTED SORBENT BOOMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101650 32P. 1981

0921 LICHTE,H.W., BORST,M., SMITH,G.F. TESTS OF THE SHELL SUCK SKIMMER ABOARD USNS POWHATAN $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OH PB82-220849 92P. 1981

1103 SMITH,G.F., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1981

SMITH,G.W

0734 SMITH,G.W., LICHTE,H.W. SUMMARY OF US ENVIRONMENTAL PROTECTION AGENCY'S OHMSETT TESTING 1974-1979 $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-165743 465P. 1981

SMITH,J.H

0567 KEWICK,R.T., GATES,J., SMITH,J.H. SIMPLE TEST OF DISPERSANT EFFECTIVENESS BASED ON INTERFACIAL-TENSION MEASUREMENTS $ STANFORD RES INST INT MENLO PARK CALIF FUEL 59 (4) P. 263-265 1980

SMITH,J.L

0154 BURNS,K.A., SMITH,J.L. BIOLOGICAL MONITORING OF AMBIENT WATER QUALITY THE CASE FOR USING BIVALVES AS SENTINEL ORGANISMS FOR MONITORING PETROLEUM POLLUTION IN COASTAL WATERS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ESTUARINE COASTAL AND SHELF SCIENCE 13 (4) P. 433-443 1981

0864 BURNS,K.A., SMITH,J.L. HYDROCARBONS IN VICTORIAN COASTAL ECOSYSTEMS (AUSTRALIA) - CHRONIC PETROLEUM INPUTS TO WESTERN PORT AND PORT-PHILLIP BAYS $ MINIST CONSERVAT MARINE STUDIES BRANCH QUEENSCLIFF AUSTRALIA ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (2) P. 129-140 1982

SMITH,P.K

0019 ANGERMAN,C.L., BICKFORD,D.F., GOULD,T.H. JR., SMITH,P.K. SAFETY ANALYSIS REPORT FOR THE EXP-238-PUB-SUB-2-FUEL FAB'N FACILITY $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 200P. 1977

SMITH,R.H

0894 BUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., RUSTYLEN,G.P., DAN,M.S., ZWAMBORN,J.A., NOSSMERKIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ INT PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

SMITH,R.L

0693 SAMPSON,A.R., SMITH,R.L. ASSESSING RISKS THROUGH THE DETERMINATION OF RARE EVENT PROBABILITIES $ AIR FORCE OFFICE OF SCIENTIFIC RESEARCH BOLLING AFB D.C. AD-A092-19274 47P. 1980

SMITH,W

0735 SMITH,W. SURVEY DESIGN IN MARINE ENVIRONMENT: THREE EXAMPLES $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-199326 16P. 1978

0736 SMITH,W. AN OIL SPILL SAMPLING STRATEGY $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-174173 11P. 1979

SNAVELY,E.S

0737 SNAVELY,E.S. JR., YARBROUGH,H.F. OFFSHORE OILY WATER SEPARATION $ MOBIL RES AND DEV CORP USA SOC PET ENG AIME PAP SPE PROC MIDDLE EAST TECH CONF MANAMA BAHRAIN P. 31-36 1981

SNIDER,M.D

0738 SNIDER,M.D., SHEEHAN,D.F., JOHNSON,E.K. OVERVIEW OF CURRENT AND PROPOSED TANK VESSEL SAFETY AND POLLUTION PREVENTION MEASURES $ US COAST GUARD SEATTLE WASH PROC - SHIP TECHNOL AND RES (STAR) SYMP 4TH P. 93-119 1979

SNOW

0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PROC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

SNOW,N.B

0710 SCOTT,B.F., NAGY,E., SHERRY,J.P., DUTKA,B.J., GLUSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER $ NATL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

SOBEY,E

0524 MURSUN,B., SOBEY,E. RESPONSE TO OIL SPILLS IN THE ARCTIC ENVIRONMENT: A REVIEW $ SCI APPL INC BOULDER COLO OCEANS (NEW YORK) ANNU COMB CONF OF IEEE AND MAR TECHNOL SOC 1979

SOBOL,M.I

0061 BELKEVICH,P.I., KUVZUN,A.A., SOBOL,M.I., CHRISTOVA,L.R. ORGANOPHILIC-PEAT SORBENT FOR REMOVING OILS AND PETROLEUM PRODUCTS FROM WASTEWATERS $ ACAD SCI BESSR INST PEAT MINSK BESSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (11) P. 1796-1799 1980

SOCIOECONOMIC

0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

SOCIOECONOMIC

0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCOLES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

SOCK

0921 LICHTE,H.W., BURST,M., SMITH,G.F. TESTS OF THE SHELL SOCK SKIMMER ABOARD USNS POWHATAN $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OH PB82-220849 92P. 1981

SOIL

0018 ANDRESON,R.K., MUKHATANOV,A.K., BOIKO,T.F. ECOLOGICAL CONSEQUENCES OF SOIL POLLUTION WITH OIL $ ACAD SCI USSR INST BIOL UFA SOVIET JOURNAL OF ECOLOGY 11 (6) P. 340-344 1980

0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,D., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1980

0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

0439 LEENHEER,J.A., STUBER,H.A. MIGRATION THROUGH SOIL OF ORGANIC SOLUTES IN AN OIL-SHALE PROCESS WATER $ US GEOL SURVEY DENVER FED CTR DENVER CO ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (12) P. 1467-1475 1981

0504 MCGILL,W.B., ROWELL,M.J. DETERMINATION OF OIL CONTENT OF OIL CONTAMINATED SOIL $ UNIV ALBERTA DEPT SOIL SCI EDMONTON ALBERTA CANADA SCIENCE OF THE TOTAL ENVIRONMENT 14 (3) P. 245-253 1980

0526 MUKATANOV,A.K., RIVKIN,P.R. INFLUENCE OF PETROLEUM ON SOIL PROPERTIES $ NEFTYANOE KHOZYAISTVO (4) P. 53-54 1980

0641 PENMAN,A.D.M. SOIL STRUCTURE INTERACTION AND DEFORMATION PROBLEMS WITH LARGE OIL TANKS $ BUILDING RESEARCH STATION WATFORD ENGLAND PB-80-227192 20P. 1978

0677 ROGERSON,A., BERGER,J. THE EFFECTS OF COLD TEMPERATURES AND CRUDE-OIL ON THE ABUNDANCE AND ACTIVITY OF PROTOZOA IN A GARDEN SOIL $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CANADIAN JOURNAL OF ZOOLOGY 59 (8) P. 1554-1560 1981

0678 ROGERSON,A., BERGER,J. EFFECT OF CRUDE-OIL AND PETROLEUM DEGRADING MICROORGANISMS ON THE GROWTH OF FRESH-WATER AND SOIL PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO JOURNAL OF GENERAL MICROBIOLOGY 124 P. 53-59 1981

SOIL

0741 SPARROW,E.B., DAVENPORT,C.V., GORDON,R.C. RESPONSE OF MICROORGANISMS TO HOT CRUDE-OIL SPILLS ON A SUBARCTIC TAIGA SOIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB COLLEGE ALASKA PB-80-217722 16P. 1978

0985 SPARROW,E.B. LONG-TERM RESPONSE OF SOIL MICRO-ORGANISMS TO CRUDE-OIL SPILLS ON PERMA-FROST TERRAIN IN INTERIOR ALASKA USA $ INST OF WATER RESOURCES UNIV OF ALASKA FAIRBANKS ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 50-51 1981

0993 VERWEIJ,A. POLLUTION OF THE SOIL BY AVIATION GASOLINE $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON,D.C. 26P. 1979

1003 LEENHEER,J.A., STUBER,H.A., NOYES,T.I. CHEMICAL AND PHYSICAL INTERACTIONS OF AN IN SITU OIL-SHALE PROCESS WATER WITH A SURFACE SOIL $ US GEOL SURV DENVER COLO OIL SHALE SYMP PROC 14TH GOLDEN COLO P. 357-375 1981

1068 COPENHAVER,E.D., WILKINSON,B.K. MOVEMENT OF HAZARDOUS SUBSTANCES IN SOIL A BIBLIOGRAPHY VOLUME 2 PESTICIDES $ PB80-113111 228P. 1979

SOIL-PIPE

0825 YEN,B.C., TSAO,C.H., HINKLE,R.D. SOIL-PIPE INTERACTION OF HEATED OIL PIPELINES $ CALIF STATE UNIV LONG BEACH CA TRANSPORTATION ENGINEERING JOURNAL OF ASCE 107 (1) P. 1-14 1981

SOILS

0117 BUDAY,F., SASS,L., TOROK,G., GERGELY,Z., SZAKACS,A., VURUS,I. MICROBIOLOGICAL DEGRADATION OF OIL POLLUTION OF SOILS $ HIGH PRESSURE RES INST SZASZHALOMBATTA HUNGARY ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE 27 (3) 258P. 1980

0875 CULLEY,J.L.B., DOW,B.K., PRESANT,B.W., MACLEAN,A.J. RECOVERY OF PRODUCTIVITY OF ONTARIO SOILS DISTURBED BY AN OIL PIPELINE INSTALLATION $ AGR CANADA LAND RESOURCE RES INST OTTAWA CANADA CANADIAN JOURNAL OF SOIL SCIENCE 62 (2) P. 267-279 1982

1001 YANG,W.F., CHAU,A., SMALLWOOD,C. JR. LAND TREATMENT OF OILY WASTES REDUCTION OF CRUDE-OIL IN SOILS $ INST ENVIRON ENG NATL TAIWAN UNIV TAIPEI TAIWAN IN PROC IND WASTE CONF 35 P. 8549 1982

SOKOLOV,E.A

0016 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SOKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

SOLANGI,M.A

0983 SOLANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND MUGIL-CEPHALUS (LINNAEUS) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MS JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

SOLID-LIQUID

0603 NOMURA,A., MURITA,Y., KOGURE,Y. NITROGEN COMPOUNDS IN PETROLEUM "EM-DASH" 4 DISTRIBUTION PROFILES OF NITROGEN COMPOUNDS IN PETROLEUM BY SOLID-LIQUID CHROMATOGRAPHY $ NATL CHEM LAB FOR IND TOKYO JPN BULL CHEM SOC JPN 52 (3) P. 817-820 1979

SOLIE,C.H

0258 PENNER,R.G., REID,S.C., SOLIE,C.H. A MULTIFREQUENCY EVALUATION OF ACTIVE AND PASSIVE MICROWAVE SENSORS FOR OIL SPILL DETECTION AND ASSESSMENT $ NASA LYNDON B JOHNSON SPACE CTR HOUSTON TX IN: NASA 11TH SPACE SIMULATION CONFERENCE P. 163-187 1980

SOLUBLE

0155 BOUDOUH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD MOECKOSIMUS-(MONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

0407 KLEIN,S.A., JENKINS,D. QUANTITATIVE AND QUALITATIVE ANALYSIS OF THE WATER SOLUBLE FRACTION OF JET-FUELS $ UNIV OF CALIF BERKELEY WATER RES 15 (1) P. 75-82 1981

0412 KOKOLYOV,A.M., SYUMINA,T.K., MAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ MV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

0415 KUCHERENKO,L.A., KAMYSHOVA,V.K. DEPENDENCE OF THE TOXIC AND PROTECTIVE PROPERTIES OF SHALE-OILS ON THEIR CONTENTS OF WATER SOLUBLE PHENOLS $ MV LOMONOSOV STATE UNIV MOSCOW JOURNAL OF APPLIED CHEMISTRY OF THE USSR 54 (1) P. 112-114 1981

0640 PEARSON,W.H., MILLER,S.E., BLAYLOCK,J.W., OLLA,B.L. DETECTION OF THE WATER SOLUBLE FRACTION OF CRUDE-OIL BY THE BLUE-CRAB CALLINECTES-SAPIDUS $ BATTELLE PAC NORTHWEST LAB MAR RES LAB SEQUIM WASH MAR ENVIRON RES 5 (1) P. 3-12 1981

0909 HENSON,J.M., HAYASAKA,S.S. EFFECTS OF THE WATER SOLUBLE FRACTION OF MICROBIOLOGICALLY OR PHYSICALLY ALTERED CRUDE PETROLEUM ON THE HETEROTROPHIC ACTIVITY OF MARINE BACTERIA $ CLEMSON UNIV DEPT MICROBIOL CLEMSON SC MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 205-214 1982

SOLUBLE

0983 SOLANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND TRINECTES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MS JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

SOLUTES

0439 LEENHEER,J.A., STUBER,H.A. MIGRATION THROUGH SOIL OF ORGANIC SOLUTES IN AN OIL-SHALE PROCESS WATER $ US GEOL SURVEY DENVER FED CTR DENVER CO ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (12) P. 1467-1475 1981

SOLUTIONS

0651 POLLUTION SOLUTIONS ... INDUSTRIAL OIL SEPARATION & EFFLUENT AND WATER TREATMENT JOURNAL 20 (11) P. 554-555 1980

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS I HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

1099 ADAMS,N. WELL CONTROL PROBLEMS AND SOLUTIONS $ PETROLEUM PUBLISHING COMPANY TULSA OKLAHOMA 1980

SOLVENT

0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

0349 HEWITT,J.D., RODGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 9P. 1980

SOMMER,T

1025 EIMHJELLEN,K., SOMMER,T. MICROBIOLOGY 2 BIODEGRADATION OF OIL $ BAFFIN ISLAND OIL SPILL PROJECT WORKING REPORT # BIOS-80-6 OTTAWA ONTARIO 1981

SOOM,A

0739 SOOM,A., MARTIN,H.R., LEA,J.A. PASSIVE ACOUSTIC DETECTION OF GAS LEAKS IN BURIED PIPES $ STATE UNIV OF NY BUFFALO ASME PAP N 80-WA/NC-17 FOR MEET 10P. 1980

SORBENT

0024 ANON. PETRO-FIBER IDEAL SORBENT FOR OIL SPILLS $ OCEAN IND 16 (4) 418P. 1981

0061 BELKEVICH,P.I., KOVZUN,A.A., SOBOL,M.I., CHRISTEVA,L.R. ORGANOPHILIC-PEAT SORBENT FOR REMOVING OILS AND PETROLEUM PRODUCTS FROM WASTEWATERS $ ACAD SCI BESSR INST PEAT MINSK BESSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (11) P. 1796-1799 1980

SORBENT

0728 SKAALEN,C.I., KAUSCH,A.B. ENGINEERING EVALUATION OF SORBENT DISPENSING/COLLECTION SYSTEM UNIVERSAL MOUNTING ARRANGEMENT $ CIVIL ENGINEERING LAB (NAVY) PORT HUENEME CA AD-A078-431/4 46P. 1979

0733 SMITH,G.F. DEPLOYMENT CONFIGURATIONS FOR IMPROVED OIL CONTAINMENT WITH SELECTED SORBENT BOOMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101650 32P. 1981

SORBENTS

0306 GUMULKA,E., RYBKA,J. POLYURETHANE RESINS AS OIL SORBENTS IN WASTEWATER TREATMENT $ POLYTECH INST WROCLAW INST ENVIRONM PROTECT ENGN WROCLAW POLAND IN: PAWLOWSKI,L. PHYSICOCHEMICAL METHODS FOR WATER AND WASTEWATER TREATMENT P. 193-203 1980

0599 NESTEROVA,M.P., ANUFRIEVA,N.M., GORITSKII,A.B., SHUTER,L.M., VERLINSKAYA,R.M. REMOVAL OF OIL POLLUTANTS FROM WATER BODIES BY MEANS OF HYDROPHOBIC SORBENTS $ WATER RESOUR 7 (4) P. 375-379 1980

0601 NICHOLS,L.D. UNDERSTANDING AND IMPROVING SORBENTS FOR FLOATING OIL $ NATIONAL SCIENCE FOUNDATION WASHINGTON, D.C. PB-81-178097 48P. 1974

0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-6 1981

0814 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP II THE EVALUATION OF OIL ABSORBABILITY OF NATURAL SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 29-35 1981

0911 HUPKA,J. DETERMINATION OF THE SORPTION CAPACITY OF SORBENTS USED TO CLEAN-UP OIL SPILLS $ POL PL STUD WATER ORGANOL 35 P. 261-78 1981

0996 WIDAYAT,K.P., MOERDOKO,W., WINIATI,W., HAGIWARA,K. HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP III FORMATION AND EVALUATION OF THE NATURAL SORBENTS $ OSAKA IND RES INST OSAKA JAPAN OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (4) P. 269-75 1981

SORENSEN,B.M

0984 SORENSEN,B.M., STURM,B., TASSAN,S. SOME RESULTS FROM EXPERIMENTS ON REMOTE-SENSING OF WATER QUALITY AND OIL POLLUTION IN THE MEDITERRANEAN SEA $ COMMISS EUROPEAN COMMUNITIES JOINT RES CTR ISPRA ITALY IN: ENVIRONM RES INST MICHIGAN PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 1 AND 2 P. 417-424 1982

SORPTION
0911 HUPKA,J. DETERMINATION OF THE SORPTION CAPACITY OF SORBENTS USED TO CLEAN-UP OIL SPILLS $ POL PL STUD WATER RCLEANUL 35 P. 261-78 1981

SOURCE
0206 CUEVAS,P.A., FLORES,R.G.C., CASTELLANOS,T.R. GAS-CHROMATOGRAPHY AS A TECHNIQUE FOR OIL SPILL SOURCE IDENTIFICATION $ CROMATOGRAFIA DE GAS COMO TECNICA PARA LA IDENTIFICACION DE FUENTES DE DERRAME DE CRUDO INST MEX DEL PET MEXICO CITY REV INST MEX PET 12 (4) P. 30-41 1980

0246 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. ENVIRONMENTAL IMPACT GUIDELINES FOR NEW SOURCE PETROLEUM REFINERIES $ PB-82-123514 128P. 1981

0274 FRANK,U., STAINKEN,D., GRUENFELD,M. METHODS FOR THE SOURCE IDENTIFICATION AND QUANTIFICATION OF OIL POLLUTION $ EPA EDISON NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 323-331 1979

0809 WHELAN,J.K., HUNT,J.M., HUC,A.Y. APPLICATIONS OF THERMAL DISTILLATION-PYROLYSIS TO PETROLEUM SOURCE ROCK STUDIES AND MARINE POLLUTION $ DEPT CHEM WOODS HOLE MA JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS 2 (1) P. 79-96 1980

SOURCES
0093 BOEHM,P.D., STEINHAUER,W.G., FIEST,D.L., MOSESMAN,N., BARAK,J.E., PERRY,G.M. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON POLLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMBRIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

0230 DUFFY,J.J., PEAKE,E., MOHTADI,M.F. OIL SPILLS ON LAND AS POTENTIAL SOURCES OF GROUNDWATER CONTAMINATION $ UNIV CALGARY CALGARY CANADA ENVIRON INT 3 (2) P. 107-20 1980

0637 PAYNE,J.F., MARTINS,I., FAGAN,D., RAHIMTULA,A. MUTAGENS IN AQUATIC ENVIRONMENTS - WATER CHLORINATION AND PETROLEUM SOURCES OF POLYCYCLIC-AROMATICS AS MAJOR CONTRIBUTORS $ CANADA DEPT FISHERIES AND OCEANS RES AND RESOURCE SERVS ST JOHNS NEWFOUNDLAND IN: JOLLEY,R.L., BROWNS,W.A., CUMMING,R.B. WATER CHLORINATION 3 P. 845-850 1980

1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204032 118P. 1979

SOURIRAJAN,S
0416 KUTOWY,O., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES COUNC OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

SOUTAR,I

0194 CORFIELD,M.M., HAWKINS,H.L., JOHN,P., SOUTAR,I. ASSESSMENT OF PHOSPHORESCENCE-SPECTROSCOPY FOR CRUDE-OIL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ANALYST (LONDON) 106 (1259) P. 188-97 1981

0740 SOUTAR,I. SYNCHRONIZE YOUR WATCHES: THE APPLICATION OF LUMINESCENCE TECHNIQUES TO OIL SPILL IDENTIFICATION $ CHEM DEP HERIOT-WATT UNIV EDINBURGH SCOT ENERGY BALANCE PAP ANNU MEET BR ASSOC ADV SCI P. 3-18 1979

SOUTH-AFRICAN

0278 FRICKE,A.H., HENNIG,H., ORREN,M.J. RELATIONSHIP BETWEEN OIL POLLUTION AND PSAMMOLITTORAL METOFAUNA DENSITY OF 2 SOUTH-AFRICAN BEACHES $ UNIV CAPE TOWN DEPT OF OCEANOG NATL RES INST OCEANOL RONDEBOSCH SOUTH AFRICA MARINE ENVIRONMENTAL RESEARCH 5 (1) P. 59-77 1981

0345 HENNING,H.F.K.O., FRICKE,A.H. RECOVERY POTENTIAL AND CHRONIC OIL POLLUTION ON THE SOUTH-AFRICAN COAST $ UNIV CAPE TOWN NATL RES INST OCEANOL DEPT OCEANOG RONDEBOSCH SOUTH AFRICA MARINE POLLUTION BULLETIN 11 (10) P. 301-302 1980

SOUTH-EASTERN

0920 LANFEAR,K.J., AMSTUTZ,D.E. ENVIRONMENTAL STUDIES FOR OILSPILL TRAJECTORY MODELING IN THE SOUTH-EASTERN U.S. OUTER CONTINENTAL SHELF LEASING AREA $ US GEOL SURV USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 487-495 1981

SOUTH-WESTERN

1115 ANONYMOUS SITE SELECTION GUIDELINES AND LOCALE IDENTIFICATION FOR THE DISPOSAL OF OIL CONTAMINATION DEBRIS RESULTING FROM AN OIL SPILL IN SOUTH-WESTERN COASTAL B.C. $ TERA CONSULTANTS LIMITED BRITISH COLUMBIA 1980

SOUTHGATE,T

0533 MYERS,A.A., SOUTHGATE,T., CROSS,T.F. DISTINGUISHING THE EFFECTS OF OIL POLLUTION FROM NATURAL CYCLICAL PHENOMENA ON THE BIOTA OF BANTRY-BAY IRELAND $ NATL UNIV IRELAND UNIV COLL CORK DEPT ZOOL CORK IRELAND MARINE POLLUTION BULLETIN 11 (7) P. 204-207 1980

SOVEREIGN

0447 LEVENTHAL,F.O. THE BAY OF CAMPECHE OIL SPILL OBTAINING JURISDICTION OVER PETROLEOS-MEXICANOS UNDER THE FOREIGN SOVEREIGN IMMUNITIES ACT OF 1976 $ UNIV CALIF BERKELEY SCH LAW BERKELEY CA ECOLOGY LAW QUARTERLY 9 (2) P. 341-377 1981

SOVIET

0449 LICHTE,H.W. PERFORMANCE TESTING OF THE SOVIET OIL/DEBRIS SKIMMER $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-244790 42P. 1981

SPACE

0150 BUREAU OF LAND MANAGEMENT NEW-YORK ASSESSMENT OF SPACE AND USE CONFLICTS BETWEEN THE FISHING AND OIL INDUSTRIES VOLUME II ENGINEERING ASSESSMENT $ PB-81-215972 158P. 1981

SPACE-TECHNOLOGY
0012 ALVARADO,U.R., CHAFARIS,G., CHESTEK,J., CONRAD,J., FRIPPEL,G. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: TECHNICAL VOLUME EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 464P. 1980

0013 ALVARADO,U.R. ASSESSMENT OF THE USE OF SPACE-TECHNOLOGY IN THE MONITORING OF OIL SPILLS AND OCEAN POLLUTION: EXECUTIVE SUMMARY $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 68P. 1980

SPALL,W.D
0360 HULLAND,L.M., SPALL,W.D., GARCIA,L.L., ROM,W.N. (ED), ARCHER,V.E. (ED) INHALATION TOXICOLOGY OF OIL-SHALE RELATED MATERIALS $ LOS ALAMOS SCI LAB UNIV CALIFORNIA LOS ALAMOS NM HEALTH IMPLIC NEW ENERGY TECHNOL (PARK CITY ENVIRON HEALTH CONF) P. 515-26 1979

SPANISH
0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V POLA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

SPARROW,E.B
0387 JOHNSON,L.A., COLLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

0741 SPARROW,E.B., DAVENPORT,C.V., GORDON,R.C. RESPONSE OF MICROORGANISMS TO HOT CRUDE-OIL SPILLS ON A SUBARCTIC TAIGA SOIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB COLLEGE ALASKA PB-80-217722 16P. 1978

0985 SPARROW,E.B. LONG-TERM RESPONSE OF SOIL MICRO-ORGANISMS TO CRUDE-OIL SPILLS ON PERMA-FROST TERRAIN IN INTERIOR ALASKA USA $ INST OF WATER RESOURCES UNIV OF ALASKA FAIRBANKS ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 50-51 1981

SPARTINA-ALTERNIFLORA
0211 DELAUNE,R.D., PATRICK,W.H. JR., BURESH,R.J. EFFECT OF CRUDE-OIL ON A LOUISIANA *SPARTINA-ALTERNIFLORA SALT-MARSH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-164502 11P. 1979

SPATZ,D.D
0742 SPATZ,D.D. MULTI-YEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMONICS INC HOPKINS MN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 108P. 1980

0743 SPATZ,D.D. MULTIYEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMON INC IND RD HOPKINS MN ACS SYMPOSIUM SERIES (154) P. 221-236 1981

SPAULDING,M.L
0197 CURNILLON,P.C., SPAULDING,M.L., HANSEN,K. OIL SPILL TREATMENT STRATEGY MODELING FOR GEORGES-BANK $ UNIV OF RI KINGSTON USA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 685-692 1979

SPECTRA
0350 HIGASHI,K., HAGIWARA,K. CHARACTERIZATION OF SPILLED OILS BY MEASURING FLUORESCENCE EMISSION SPECTRA OF FRACTIONS SEPARATED BY HIGH-SPEED GEL-PERMEATION-CHROMATOGRAPHY $ GOVT IND RES INST OSAKA MIDORIGAOKA IKEDA OSAKA JAPAN FRESENIUS ZEITSCHRIFT FUR ANALYTISCHE CHEMIE 302 (4) P. 281-285 1980

SPECTRAL
0077 BESPALOVA,E.A., MILITSKIY,Y.A., POKROVSKAYA,I.V., MIKOVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (10) P. 54-56 1978

SPECTROFLUORIMETRY
0895 GARRIGUES,P., EWALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOT-[illegible]IEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

SPECTROFLUOROMETRIC
0045 BAJNOCZY,G., KASA,I. SPECTROFLUOROMETRIC DETERMINATION OF PETROLEUM IN DRINKING WATER $ TECH UNIV BUDAPEST HUNG PERIOD POLYTECH CHEM ENG 24 (1) P. 29-33 1980

SPECTRUM
0836 ARSI,K.H.Y., KARD,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

SPEIGHT,J.G
1100 SPEIGHT,J.G. THE CHEMISTRY AND TECHNOLOGY OF PETROLEUM $ MARCEL DEKKER INC NEW YORK 1980

SPENCER,J.S
0161 CARD,J.C., COJEEN,H.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-711/3 174P. 1979

SPHAEROMA-QUADRIDENTATUM
0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

SPICARA-SMARIS
0412 KORULYOV,A.M., SYUMINA,T.K., MAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ MV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

SPICARA-SMARIS-L
0499 MAZMANIDI,N.D., KOTOV,A.M. EFFECT OF PETROLEUM DISPERSANTS ON THE SURVIVAL RATE AND SOME PHYSIOLOGICAL-BIOCHEMICAL BLOOD INDEXES OF THE BLACK SEA SEA-BASS (SPICARA-SMARIS-L.) $ USES NAUCHNO-ISSLED INST MORSK RYBN KHOZ OKEANOGR BATUMI USSR GIDROBIOL ZH 17 (1) P. 74-8 1981

SPIES,R.B
0877 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 2 THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 287-294 1981

0986 SPIES,R.B. EFFECTS OF NATURAL PETROLEUM SEEPS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 28P. 1981

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 1 HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

SPILLAGE
0032 ATLAS,R.M., BOEHM,P.D., CALDER,J.A. CHEMICAL AND BIOLOGICAL WEATHERING OF OIL FROM THE AMOCO-CADIZ SPILLAGE WITHIN THE LITTORAL ZONE $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY ESTUARINE COASTAL AND SHELF SCIENCE 12 (5) P. 589-608 1981

0488 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS: APPLICATION TO THE "BOHLEN" OIL SPILLAGE $ CENT OCEANOL BRETAGNE CNEXO BREST FR OCEANOL ACTA 4 (2) P. 171-83 1981

0492 MARCHAND,M., ROUCACHE,J. CRITERIA FOR OIL POLLUTION RESEARCH IN MARINE SEDIMENTS APPLICATION TO THE BOHLEN OIL SPILLAGE $ CTR NATL EXPLOITAT OCEANS CTR OCEANOL BRETAGNE EP BREST FRANCE OCEANOLOGICA ACTA 4 (2) P. 171-183 1981

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

SPILLANE,K.T

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

SPILT

0602 NOBUNAGA,H. ANTI-OCEAN-POLLUTION EQUIPMENT AND SHIPS FOR RECOVERING SPILT OIL $ WORKSHIP DES DEP ISHIKAWAJIMA-HARIMA HEAVY IND CO LTD TOKYO JAPAN KENRYO GYOSI NENSHU 47 (8) P. 651-68 1980

0790 VAN DUDENHOVEN,J.A.C.M., ANGLES,M., DE-ROOCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE REP (9) 52P. 1980

1113 VAN DUDENHOVEN,J.A.C.M., ANGLES,M., DEBROCKER,A., KELLY,R.P., LOUDEN,W.L., RUDD,J.K., LEVI,J.D. DISPOSAL TECHNIQUES FOR SPILT OIL $ CONCAWE 1980

SPITSBERGEN

0166 CARSTENS,T., SENDSTAD,E. OIL SPILL ON THE SHORE OF AN ICE-COVERED FJORD IN SPITSBERGEN $ RIVER AND HARBOUR LAB TRONDHEIM NORWAY IN: NORWEGIAN INST TECHNOL PROC 79: THE 5TH INTERNATIONAL CONF ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS VOL 2 P. 1227-1242 1979

SPRAGUE,J.B

0745 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RECOMMENDATIONS FROM A RESEARCH APPRAISAL $ DEP ZOOL UNIV GUELPH GUELPH ONT MAR POLLUT BULL 12 (2) P. 45-46 1981

1016 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-2 OTTAWA ONTARIO 1982

1028 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS - RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-1 OTTAWA ONTARIO 1980

SPREAD

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

0755 SUNDARAM,T.R. SPREAD OF OIL SLICKS ON A NATURAL BODY OF WATER $ TS ASSOCIATES INC COLUMBIA MD JOURNAL OF HYDRONAUTICS 14 (4) P. 124-126 1980

0916 KITAMURA,Y., TAKAHASHI,T. WIND INDUCED DRIFT OF OIL SLICKS SPREAD ON WATER SURFACE $ OKAYAMA UNIV DEPT IND CHEM OKAYAMA JAPAN KAGAKU KOGAKU RONBUNSHU 8 (2) P. 194-198 1982

Volume

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Format

This bibliography contains over 1,500 references which have been compiled using a computer system. Authors and keywords are arranged alphabetically throughout this bibliography. Readers are advised to check for the particular keyword of interest, plus its plural and other forms of the word, eg., its verb, adjective, etc. Compound names such as place names or those of biological species, will be indexed in this bibliography as separate words.

SPREAD

0958 NESTERUVA,M.P., ANUFRIEVA,N.M., LEVINA,R.M. INVESTIGATION OF CHEMICAL AGENTS CONTAINING THE SPREAD OF OIL ON A WATER SURFACE $ WATER RESOUR 8 (1) P. 85-91 1981

SPREADING

0130 CHANG,M.R., REID,R.C. SIMULTANEOUS BOILING AND SPREADING OF LIQUEFIED-PETROLEUM-GAS ON WATER FINAL REPORT DECEMBER 12 1978-MARCH 31 1981 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 38P. 1981

0254 FAZAL,R.A., MILGRAM,J.H. THE EFFECTS OF SURFACE PHENOMENA ON THE SPREADING OF OIL ON WATER $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-163629 73P. 1979

0624 OSAMOR,C.A. OIL SLICK DISPERSAL MECHANICS: SPREADING DISSOLUTION AND CHEMICAL DISPERSION $ RUTGERS UNIV THE STATE UNIV OF NEW JERSEY NEW BRUNSWICK NJ 442P. 1981

0761 TAKAHASHI,T., KITAMURA,Y., NAKADA,K. SPREADING OF OIL SLICKS ON CALM WATER SURFACES EFFECT OF THE VISCOUS DRAG OF AN OIL SLICK ON ITS SPREADING RATE $ OKAYAMA UNIV JPN INT CHEM ENG 21 (2) P. 244-250 1981

SPREADS

0990 SUNDARAM,T.R. SPREADS OF OIL SLICKS ON A NATURAL BODY OF WATER REPLY $ TS ASSOCIATES INC COLUMBIA MD AIAA JOURNAL 20 (3) P. 446-448 1982

0994 WALDMAN,G.D., FANNELOP,T.K. SPREADS OF OIL SLICKS ON A NATURAL BODY OF WATER COMMENT $ AVCO SYST DIV WILMINGTON MA AIAA JOURNAL 20 (3) 447P. 1982

SPRINGFIELD

0554 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA GROUND-WATER POLLUTION 1964-JANUARY 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB-82-800129 186P. 1981

0555 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SUPERTANKERS AND SUPERPORTS 1970-SEPTEMBER 1981 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ PB-82-801135 135P. 1981

0556 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SUPERTANKER AND SUPERPORTS 1964-SEPTEMBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-82-801150 219P. 1981

0557 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1970-1980 (CITATIONS FROM THE ENGINEERING INDEX BASE) $ PB-81-802092 177P. 1981

0558 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1964-DECEMBER 1980 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-802134 163P. 1981

SPRINGFIELD

0559 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1973-SEPTEMBER 1980 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB-81-802969 172P. 1981

0560 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA BIODETERIORATION OF OIL SPILLS 1964-FEBRUARY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-803827 145P. 1981

0561 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PIPELINES 1964-FEBRUARY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-804700 208P. 1981

0562 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA THE BIOLOGICAL EFFECTS OF OIL SPILLS 1978-MAY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-806200 253P. 1981

0563 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA THE BIOLOGICAL EFFECTS OF OIL SPILLS 1975-MAY 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB-81-806218 284P. 1981

0564 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OCEAN LAW 1977-MAY 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-807349 108P. 1981

0565 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SLICK MOVEMENT 1964-JUNE 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-81-807570 50P. 1981

0566 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PIPELINE CORROSION 1977-JULY 1981 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ PB-81-808545 233P. 1981

0567 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA MARINE FUELS JANUARY 1973-OCTOBER 1981 (CITATIONS FROM INFORMATION SERVICES IN MECHANICAL ENGINEERING DATA BASE) $ PB-82-853755 67P. 1981

0568 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA POLLUTION FROM ALASKAN OIL AND GAS OPERATIONS JANUARY 1974-MAY 1981 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB-81-865768 56P. 1981

0569 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS AND OIL POLLUTION IN THE ARCTIC AND ANTARCTIC JANUARY 1970-MAY 1981 (CITATIONS FROM POLLUTION ABSTRACTS) $ PB-81-866592 38P. 1981

0570 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA NATURAL-GAS: BULK CARRIERS JANUARY 1974-JULY 1981 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB-81-872269 75P. 1981

0571 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT JANUARY 1974-AUGUST 1981 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB-81-872640 140P. 1981

SPRINGFIELD

0572 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT JANUARY 1973-AUGUST 1981 (CITATIONS FROM THE BHRA FLUID ENGINEERING DATA BASE) $ PB-81-873838 58P. 1981

0573 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA RAPID LEAK DETECTION WITH LIQUID-CRYSTALS: SIMPLE TEST PROCEDURE IS INEXPENSIVE AND ACCURATE $ PB-80-971300 1P.

0574 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA DAMAGE DETECTION SYSTEM FOR LNG CARRIERS: AN ACOUSTICAL DAMAGE DETECTION SYSTEM FOR SAFER LNG CARRIERS $ PB-80-975240 1P.

0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

0596 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA NATURAL-GAS: MARINE TRANSPORTATION 1964 OCTOBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-82-801648 169P. 1981

0940 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA REMOTE-SENSING APPLIED TO ENVIRONMENTAL POLLUTION DETECTION AND MANAGEMENT 1964-NOVEMBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-802752 231P. 1981

0941 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL TECHNIQUES AND EQUIPMENT 1976-NOVEMBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-803172 165P. 1982

0942 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL-WATER SEPARATORS 1973-NOVEMBER 1981 (CITATIONS FROM THE AMERICAN PETROLEUM INSTITUTE DATA BASE) $ PB82-805680 189P. 1982

0943 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL POLLUTION DETECTION AND SENSING 1976-JANUARY 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-805797 232P. 1982

0944 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PIPELINE CORROSION 1964-FEBRUARY 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-806423 179P. 1982

0945 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1970-FEBRUARY 1982 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ PB82-805704 189P. 1982

0946 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA BIODETERIORATION OF OIL SPILLS 1964-MARCH 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-807371 148P. 1982

0947 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL WATER SEPARATORS 1964-FEBRUARY 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-808148 170P. 1982

SPRINGFIELD

0948 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PIPELINES 1964-APRIL 1982 (CITATIONS FROM THE NTIS DATA BASE) $ PB82-808205 239P. 1982

0949 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILL REMOVAL: DISPERSANTS ABSORBANTS BOOMS AND SKIMMERS 1978-JANUARY 1982 (CITATIONS FROM THE INFORMATION RETRIEVAL LTD DATA BASE) $ PB82-859125 78P. 1982

0950 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS AND OIL POLLUTION IN THE ARCTIC AND ANTARCTIC 1970-APRIL 1982 (CITATIONS FROM POLLUTION ABSTRACTS) $ PB82-864620 58P. 1982

0951 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS: LEGAL ASPECTS 1977-MAY 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-866203 165P. 1982

0952 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OIL SPILLS: LEGAL ASPECTS 1977-MAY 1982 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB82-866211 87P. 1982

0953 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SUPERTANKERS AND SUPERPORTS 1974-MAY 1982 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB82-866260 96P. 1982

0954 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SALT-MARSHES 1977-JUNE 1982 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB82-867003 175P. 1982

0955 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PLATFORMS: TECHNOLOGY REGULATIONS AND ENVIRONMENTAL EFFECTS 1977-JUNE 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-868381 173P. 1982

SS-CHEVRON

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

SS-CONCHO-CONSTABLE

0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

SS-EXXON-CHESTER

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

SS-SANSINENA
0369 HUTCHISON,J.H., SIMONSEN,B.L. CLEANUP OPERATIONS AFTER THE 1976 SS-SANSINENA EXPLOSION AN INDUSTRIAL PERSPECTIVE $ IT CORP WILMINGTON CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 429-434 1979

ST.-LAWRENCE
0632 PALM,D.J., ALEXANDER,M.M., PHILLIPS,D.M., LUNGABUCCO,P. DAMAGE ASSESSMENT STUDIES FOLLOWING THE NEPCO-140 OIL SPILL ON THE ST.-LAWRENCE RIVER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-154594 175P. 1979

STABILITY
0309 GOSWANI,A.K. STABILITY OF OIL WATER EMULSIONS USING BINARY-MIXTURES OF PROTEIN AND SURFACIANT AS EMULSIFIERS $ KISHORI RAMAN COLL DEPT CHEM MATHURA INDIA ANNALI DI CHIMICA 69 (7-8) P. 389-397 1979

0512 MELENT'EVA,N.I., MALYSHEVA,I.V., KALITINA,N.N., SAVIN,L.N. ACCELERATED METHOD FOR EVALUATING CHEMICAL STABILITY OF FUELS DURING LONG-TERM STORAGE $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 843-846 1979

0531 MURZAKOV,R.M., SABANENKOV,S.A., SYUNYAEJ,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 674-677 1980

0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSWORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

STABILIZED
0214 DEPRAETERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

0731 SMIRNOVA,A.V., PLOTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

STAGES
0160 CAPUZZO,J.M. CRUDE-OIL EFFECTS TO DEVELOPMENTAL STAGES OF THE AMERICAN LOBSTER $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-82-117656 108P. 1981

STAINKEN,D
0274 FRANK,U., STAINKEN,D., GRUENFELD,M. METHODS FOR THE SOURCE IDENTIFICATION AND QUANTIFICATION OF OIL POLLUTION $ EPA EDISON NJ PROC - OIL SPILL CONF LOS ANGELES CALIF P. 323-331 1979

STANDARDS
0536 NATIONAL BUREAU OF STANDARDS BOULDER COLO LIQUEFIED-NATURAL-GAS A LITERATURE SURVEY $ 4 ISSUES 1972

0537 NATIONAL BUREAU OF STANDARDS BOULDER COLO LIQUEFIED-NATURAL-GAS TECHNOLOGY $ 54P. 1973

0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

STANKOVICOVA,J
0746 STANKOVICOVA,J. TREATMENT OF WATER CONTAINING PETROLEUM HYDROCARBONS BY ABRATION FOR WATER SUPPLY PURPOSES $ UPRAVA VODY S OBSAHOM ROPNYCH UHLOVOD KOV AERACIOU NA VODAREVSKE UCELY VYSK USTAV VODN HOSPOD BRATISLAVA PR STUD (98-100) P. 113-195 1980

STAPLETON,G
0634 PARASHAR,S., STAPLETON,G., WORSFOLD,R., ONEIL,R., GRAY,L. ASSESSMENT OF SAR FOR OIL POLLUTION SURVEILLANCE IN THE ICE ENVIRONMENT $ REMOTEC APPLICAT INC ST JOHNS NEWFOUNDLAND IN: NORWEGIAN INST TECHNOL PUAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 3 P. 99-123 1979

STARFISH
0877 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 2 THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 287-294 1981

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 1 HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

STATISTICAL
0272 FUSTER,D.M., SCHWARTZ,S.H., SMITH,G.F. A STATISTICAL EVALUATION OF OHMSETT TESTING $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-226128 39P. 1981

STATISTICS
0225 DOYLE,P.F. CARGO TANK REGISTRATION STATISTICS $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-80-217169 424P. 1980

STAUBIN,D.J
0297 GERACI,J.R., STAUBIN,D.J. OFFSHORE PETROLEUM RESOURCE DEVELOPMENT AND MARINE MAMMALS A REVIEW AND RESEARCH RECOMMENDATIONS $ UNIV GUELPH ONTARIO VET COLL DEPT PATHOL GUELPH ONT CANADA MARINE FISHERIES REVIEW 42 (11) P. 1-12 1980

STEEN,W.C
1065 WOLFE,N.L., PARIS,D.F., STEEN,W.C., BAUGHMAN,G.L. CORRELATION OF MICROBIAL DEGRADATION RATES WITH CHEMICAL STRUCTURE $ AMERICAN CHEMICAL SOCIETY 14 (9) P. 1143-1144 1980

STEFANI,R
0613 UFFEN,H.W., EHRENSPECK,H., MATUCK,C., HANNAN,D., STEFANI,R. OIL POLLUTION ABSTRACTS VOLUME 7 NUMBER 1 (JANUARY 1980-JUNE 1980) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-140493 355P. 1981

STEINHAUER,W.G
0093 BOEHM,P.D., STEINHAUER,W.G., FIEST,D.L., MOSESMAN,N., BARAK,J.E., PERRY,G.H. CHEMICAL ASSESSMENT OF THE PRESENT LEVELS AND SOURCES OF HYDROCARBON POLLUTANTS IN THE GEORGES-BANK REGION $ ENERGY RESOUR CO CAMBRIDGE MASS PROC - OIL SPILL CONF LOS ANGELES CALIF P. 333-341 1979

STEINVALL,U
0338 HARTMANN,B., STEINVALL,U., WIDEN,A. TESTS OF LASER INDUCED FLUORESCENCE FROM ALGAE AT SEA $ LASERINDUCERAD FLUORESCENS FRAAN ALGER RESULTAT FRAAN ETT BAATBUR RESEARCH INST OF NATIONAL DEFENCE STOCKHOLM (SWEDEN) 52P. 1979

STEKOLL,M.S
0987 STEKOLL,M.S., CLEMENT,L.E., SHAW,D.G. SUBLETHAL EFFECTS OF CHRONIC OIL EXPOSURE ON THE INTERTIDAL CLAM *MACOMA-BALTHICA* $ CORVALLIS ENVIRONMENTAL RESEARCH LAB OR PB82-156163 12P. 1982

STEPANETS,L.G
0520 MIRONOV,O.G., SHCHEKATURINA,T.L., YANOV,B.G., STEPANETS,L.G. USE OF MUSSELS IN PURIFICATION OF OIL CONTAINING SEA WATERS $ NEFTYANOE KHOZYAISTVO (6) P. 63-65 1981

STICKEL,L.F
0747 STICKEL,L.F., DIETER,M.P. ECOLOGICAL AND PHYSIOLOGICAL/TOXICOLOGICAL EFFECTS OF PETROLEUM ON AQUATIC BIRDS A SUMMARY OF RESEARCH ACTIVITIES FY76 $ FISH AND WILDLIFE SERVICE LAUREL MD PB-80-127285 20P. 1979

STIMULATING
0717 SHEVELYAKOV,V.V., SIDENKO,A.T. SENSITIZING AND STIMULATING PROPERTIES OF THE COMPOUND LUBRICANT NO. 76 $ USSR NAUCH-TEKHN PROGRESS I OKHRANA TRUDA ZHENSHCHIN V OSNOV OTR ASLYAKH KHIM PROM-STI MINSK P. 142-4 1980

STOCKHOLM
0605 NUTINI,M., MATTSSON,J., LINDEN,O. DISPERSAL AND EFFECTS OF THE ANTONIO-GRAMSCI OIL SPILL IN THE STOCKHOLM ARCHIPELAGO $ SWEDISH WATER AND AIR POLLUTION RESEARCH LAB FRYKSTA 32P. 1980

STOERMER,F.C
0748 STOERMER,F.C. A NEW HYDROCARBON DEGRADATION FUNGUS: VERTICILLIUM-ECANII $ NAIL INST PUBLIC HEALTH OSLO NORWAY EUR J.APPL MICROBIOL BIOTECHNOL 10 (3) P. 259-60 1980

STOLLER,D.A

0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MULHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

STONE,C.M

0397 KAKWAN,K.R., STONE,C.M. WHO CLEANS UP THE OIL? A MICROECONOMIC STUDY $ TULANE UNIV NEW ORLEANS LA ENVIRON INT 3 (2) P. 193-200 1980

STONE,F.N

0224 DOWTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

STONER,R.R

0749 STONER,R.R. TROPICAL OIL SPILL CONTINGENCY PLANNING REQUIREMENTS AND APPLICATIONS $ NUS CORP ROCKVILLE MD IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 663-677 1981

STORAGE

0171 CHANG,K.K., BENNER,R.E. LASER-RAMAN POINT MONITORING OF METHANE VAPOR IN THE LNG STORAGE FIELD $ DEP ENG APPL SCI YALE UNIV NEW HAVEN CT PB-80-205347 39P. 1979

0351 HILLMAN,S.O.J. STORAGE AND DISPOSAL OF OILY WASTE IN ALASKA $ SOHIO PET CO ANCHORAGE ALASKA ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 88-97 1978

0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

0435 LEE,W.H. BEHAVIOR OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT PRINCE-WILLIAM-SOUND ALASKA $ LOS ALAMOS NATL LAB LOS ALAMOS NM TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY 38 P. 101-102 1981

0512 MELENT'EVA,N.I., MALYSHEVA,I.V., KALITINA,N.N., SAVIN,L.N. ACCELERATED METHOD FOR EVALUATING CHEMICAL STABILITY OF FUELS DURING LONG-TERM STORAGE $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 843-846 1979

0674 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

STORAGE

0764 TAYLOR,A. STRATEGIC PETROLEUM RESERVE WEST HACKBERRY OIL STORAGE CAVERN FIRE AND SPILL OF SEPTEMBER 21 1978: AN ENVIRONMENTAL ASSESSMENT FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 680P. 1980

0768 THUNVIK,R., BRAESTER,C. MODELING OF GROUND-WATER FLOW AROUND OIL STORAGE CAVERNS $ ROYAL INST TECHNOL DEPT LAND IMPROVEMENT AND DRAINAGE STOCKHOLM SWEDEN APPLIED MATHEMATICAL MODELLING 4 (3) P. 225-227 1980

0794 VERHAGEN,L.H.J.M. ERGONOMIC ASPECTS OF CENTRALIZED SUPERVISION AND CONTROL OF OIL MOVEMENT AND STORAGE $ TWENTE UNIV TECHNOL WORKING GROUP ERGON ENSCHEDE NETHERLANDS IN: AUNE,A.B., VLIESTSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS P. 57-61 1980

0855 BROWN,K.W., DONNELLY,K.C. MUTAGENIC POTENTIAL OF WATER CONCENTRATES FROM THE EFFLUENT OF A WASTE OIL STORAGE POND $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (4) P. 424-429 1982

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.K., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

1030 CAPROCO CORROSION PREVENTION LTD INVESTIGATION OF THE OVERFLOW AND LOSS OF PETROLEUM FUEL AT STORAGE FACILITIES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-3 OTTAWA ONTARIO 1980

1041 CORROSION SERVICE COMPANY LIMITED EVALUATION AND PREVENTION OF CORROSION LEAKS ON BURIED STORAGE TANKS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-14 OTTAWA ONTARIO 1981

STORCH,R.L

0750 STORCH,R.L., WENK,E. JR. VESSEL TRAFFIC SAFETY IN PUGET-SOUND $ UNIV OF WASH SEATTLE OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 181-186 1980

STRAIT

0114 BROWN,D.W., FRIEDMAN,A.J., PROHASKA,P.G., MACLEOD,W.D. JR. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND PART II (SECOND-YEAR CONTINUATION) $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-82-104290 46P. 1981

0185 BROWN,D.W., FRIEDMAN,A.J., BURROWS,D.G. INVESTIGATION OF PETROLEUM IN THE MARINE ENVIRONS OF THE STRAIT OF JUAN-DE-FUCA AND NORTHERN PUGET-SOUND $ NOAA NATIONAL ANALYTICAL FACILITY SEATTLE WA PB-80-128218 120P. 1979

STRAIT

0610 NYBLADE,C.F. THE STRAIT OF JUAN-DE-FUCA INTERTIDAL AND SUBTIDAL BENTHOS $ WASHINGTON UNIV FRIDAY HARBOR FRIDAY HARBOR LABS PB-80-142136 144P. 1979

0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

0791 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P. RESEARCH TO INVESTIGATE EFFECTS FROM PRUDHOE-BAY CRUDE-OIL ON INTERTIDAL INFAUNA OF THE STRAIT OF JUAN-DE-FUCA FIRST ANNUAL REPORT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-80-160955 46P. 1979

0807 WESTLAKE,D.W.S., COOK,F.D. PETROLEUM BIODEGRADATION POTENTIAL OF NORTHERN PUGET-SOUND AND STRAIT OF JUAN-DE-FUCA ENVIRONMENTS $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WASHINGTON PB-81-141137 147P. 1980

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

STRAND,J.A

0931 MERCER,B.W., NAKAMIYA,W., PETTY,S.E., STRAND,J.A., MAHLUM,D.D. ASSESSMENT OF SYNFUEL SPILL CLEANUP OPTIONS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 15P. 1981

STRATEGIC

0764 TAYLOR,A. STRATEGIC PETROLEUM RESERVE WEST HACKBERRY OIL STORAGE CAVERN FIRE AND SPILL OF SEPTEMBER 21 1978: AN ENVIRONMENTAL ASSESSMENT FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 680P. 1980

STRATEGIES

0200 COX,G.V. OIL SPILL STUDIES: STRATEGIES AND TECHNIQUES: WORKSHOP PAPERS $ RAYTHEON OCEANOGRAPHIC AND ENVIRONMENT SERVICES PORTSMOUTH RI JOURNAL OF ENVIRONMENTAL PATHOLOGY AND TOXICOLOGY 3 (1-2) 1979

0493 MARCUS,H.S., DENHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

STRATEGIES
0604 NORTON,R.L., SAKAIDA,R.R., YAMADA,M.M. HYDROCARBON CONTROL STRATEGIES FOR GASOLINE MARKETING OPERATIONS $ ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PK NC PB-80-194632 128P. 1978

STRATEGY
0197 CORNILLON,P.C., SPAULDING,M.L., HANSEN,K. OIL SPILL TREATMENT STRATEGY MODELING FOR GEORGES-BANK $ UNIV OF RI KINGSTON USA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 685-692 1979

0245 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. EMERGENCY SPILLS RESEARCH STRATEGY 1980-1984 $ PB-81-206229 25P. 1980

0736 SMITH,W. AN OIL SPILL SAMPLING STRATEGY $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-174170 11P. 1979

STRAUGHAN,D
0751 STRAUGHAN,D. DISTRIBUTION OF TAR AND RELATIONSHIP TO CHANGES IN INTERTIDAL ORGANISMS ON SANDY BEACHES IN SOUTHERN CALIFORNIA $ UNIV OF SOUTH CALIF LOS ANGELES PROC - OIL SPILL CONF LOS ANGELES CALIF P. 591-601 1979

STREAMS
0723 SIMPSON,K.W. ABNORMALITIES IN THE TRACHEAL GILLS OF AQUATIC INSECTS COLLECTED FROM STREAMS RECEIVING CHLORINATED OR CRUDE-OIL WASTES $ NEW YORK STATE DEPT HLTH DIV LABS AND RES ALBANY NY FRESHWATER BIOLOGY 10 (6) 581P. 1980

STRESS
0732 SMITH,C.J., DELAUNE,R.D., PATRICK,W.H. A METHOD FOR DETERMINING STRESS IN WETLAND PLANT COMMUNITIES FOLLOWING AN OIL SPILL $ LOUISIANA STATE UNIV CTR WETLAND RESOURCES WETLAND SOILS AND SEDIMENTS LAB BATON ROUGE LA ENVIRONMENTAL POLLUTION SERIES A-ECOL AND BIOL 26 (4) P. 297-304 1981

STRICKLAND,W.T
0752 STRICKLAND,W.T. JR. LABORATORY RESULTS OF CLEANING PRODUCED WATER BY GAS FLOTATION $ SHELL DEV CO SOC PET ENG AIME J 20 (3) P. 175-190 1980

STRICKLER,J.R
0822 WONG,C.K., ENGELHARD,F.R., STRICKLER,J.R. SURVIVAL AND FECUNDITY OF DAPHNIA-PULEX ON EXPOSURE TO PARTICULATE OIL $ UNIV OF OTTAWA ONT CAN BULL ENVIRON CONTAM TOXICOL 26 (5) P. 606-612 1981

STRUKINA,L.A
0029 ARIEL,N.Z., BYUTNER,E.K., BORTKOVSKII,R.S., STRUKINA,L.A. INFLUENCE OF OIL FILM POLLUTION OF THE OCEAN ON OXYGEN EXCHANGE WITH THE ATMOSPHERE $ SOV METEOROL HYDROL (2) P. 47-54 1979

STRONGYLOCENTROTUS-NUDUS
0789 VASHCHENKO,M.A. THE EFFECT OF WATER-SOLUBLE HYDROCARBON FRACTIONS OF DIESEL-FUEL ON THE DEVELOPMENT OF GAMETES AND QUALITY OF THE OFFSPRING IN THE SEA-URCHIN STRONGYLOCENTROTUS-NUDUS $ ACAD SCI USSR BIOLOGIYA MORYA-MARINE BIOLOGY (4) 68P. 1980

STRUCTURE
0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.N. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

0641 PENMAN,A.D.M. SOIL STRUCTURE INTERACTION AND DEFORMATION PROBLEMS WITH LARGE OIL TANKS $ BUILDING RESEARCH STATION WATFORD ENGLAND PB-80-227192 20P. 1978

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

1065 WOLFE,N.L., PARIS,D.F., STEEN,W.C., BAUGHMAN,G.L. CORRELATION OF MICROBIAL DEGRADATION RATES WITH CHEMICAL STRUCTURE $ AMERICAN CHEMICAL SOCIETY 14 (9) P. 1143-1144 1980

STRUCTURES
0285 GALLAWAY,B.J., MARTIN,L.R. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME III EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON PELAGIC AND REEF FISHES DEMERSAL FISHES AND MACROCRUSTACEANS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192411 81P. 1980

0365 HOWARD,R.L., BOLAND,G.S., GALLAWAY,B.J., DENNIS,G.D. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME V EFFECTS OF GAS AND OIL FIELD STRUCTURES AND EFFLUENTS ON FOULING COMMUNITY PRODUCTION AND FUNCTION $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192437 91P. 1980

STUBER,H.A
0439 LEENHEER,J.A., STUBER,H.A. MIGRATION THROUGH SOIL OF ORGANIC SOLUTES IN AN OIL-SHALE PROCESS WATER $ US GEOL SURVEY DENVER FED CTR DENVER CO ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (12) P. 1467-1475 1981

1003 LEENHEER,J.A., STUBER,H.A., NOYES,T.I. CHEMICAL AND PHYSICAL INTERACTIONS OF AN IN SITU OIL-SHALE PROCESS WATER WITH A SURFACE SOIL $ US GEOL SURV DENVER COLO OIL SHALE SYMP PROC 14TH GOLDEN COLO P. 357-375 1981

STUERMER,D.H

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS I HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

STURM,B

0984 SORENSEN,B.M., STURM,B., TASSAN,S. SOME RESULTS FROM EXPERIMENTS ON REMOTE-SENSING OF WATER QUALITY AND OIL POLLUTION IN THE MEDITERRANEAN SEA $ COMMISS EUROPEAN COMMUNITIES JOINT RES CTR ISPRA ITALY IN: ENVIRONM RES INST MICHIGAN PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 1 AND 2 P. 417-424 1982

SUB-ARCTIC

0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MORITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

0902 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. THE LONG-TERM EFFECTS OF CRUDE-OIL ON MICROBIAL PROCESSES IN SUB-ARCTIC MARINE SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR ESTUARINE COASTAL AND SHELF SCIENCE 15 (2) P. 183-198 1982

SUB-SEA

1071 MEIKLE,K.M., MALKAY,D., PATERSON,S. SUB-SEA CONTAINMENT OF OIL $ INSTITUTE FOR ENVIRONMENTAL STUDIES TORONTO ONTARIO 1981

SUBALPINE

0841 BELSKY,J. DIESEL OIL SPILL IN A SUBALPINE MEADOW 9 YEARS OF RECOVERY $ SYRACUSE UNIV DEPT BIOL SYRACUSE NY CANADIAN JOURNAL OF BOTANY 60 (6) P. 906-910 1982

SUBARCTIC

0387 JOHNSON,L.A., CULLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

0741 SPARROW,E.B., DAVENPORT,C.V., GORDON,R.C. RESPONSE OF MICROORGANISMS TO HOT CRUDE-OIL SPILLS ON A SUBARCTIC TAIGA SOIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB COLLEGE ALASKA PB-80-217722 16P. 1978

SUBARCTIC

0927 MALINS,D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 5 BIOLOGICAL STUDIES: ASSESSMENT OF AVAILABLE LITERATURE ON EFFECTS OF OIL POLLUTION ON BIOTA IN ARCTIC AND SUBARCTIC WATERS $ NATIONAL MARINE FISHERIES SERVICE SEATTLE WA PB82-171794 716P. 1979

SUBLETHAL

0071 BERMAN,M.S., HEINLE,D.R. MODIFICATION OF THE FEEDING BEHAVIOR OF MARINE COPEPODS BY SUBLETHAL CONCENTRATIONS OF WATER ACCUMULATED FUEL-OIL $ UNIV MARYLAND CTR ENVIRONM AND ESTUARINE STUDIES CHESAPEAKE BIOL LAB SOLOMONS MD MARINE BIOLOGY 56 (1) P. 59-64 1980

0190 CONNELL,D.W., MILLER,G.J. PETROLEUM HYDROCARBONS IN AQUATIC ECOSYSTEMS BEHAVIOR AND EFFECTS OF SUBLETHAL CONCENTRATIONS 1 $ GRIFFITH UNIV QUEENS LAND AUSTRALIA CRIT REV ENVIRON CONTROL 11 (1) P. 37-104 1981

0623 URDZIK,L.J., GARDFALO,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT CUREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

0691 SAMAIN,J.F., MOAL,J., ALAYSE-DANET,A.M., DANIEL,J.Y., LE COZ,J.R. MODEL FOR RAPID DETECTION OF SUBLETHAL EFFECTS OF POLLUTANTS II AN IN SITU EXAMPLE: ANOMALOUS METABOLISM OF THE HYPONEUSTONIC-COPEPOD ANOMALOCERA-PATERSONI COINCIDING WITH AN OIL SPILL $ CENT OCEANOL BRETAGNE CENT NATL EXPLOITATION OCEANS BREST FR MAR BIOL (BERLIN) 64 (1) P. 35-41 1981

0837 ATEMA,J., KARNOFSKY,E.B., OLESZKO-SZUTS,S., BRYANT,P. LOBSTER BEHAVIOR AND CHEMORECEPTION: SUBLETHAL EFFECTS OF NUMBER-2-FUEL-OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB82-192444 71P. 1982

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

0987 STEKOLL,M.S., CLEMENT,L.E., SHAW,D.G. SUBLETHAL EFFECTS OF CHRONIC OIL EXPOSURE ON THE INTERTIDAL CLAM "MACOMA-BALTHICA" $ CORVALLIS ENVIRONMENTAL RESEARCH LAB JR PB82-158163 12P. 1982

1034 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF DISPERSED OIL ON AN ESTUARINE ISOPOD $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-1 OTTAWA ONTARIO 1982

1029 DUVAL,W.S., HARWOOD,L.A., FINK,R.P. THE SUBLETHAL EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED CRUDE-OIL ON THE PHYSIOLOGY AND BEHAVIOUR OF THE ESTUARINE ISOPOD GNORIMOSPHAEROMA-OREGONENSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-2 OTTAWA ONTARIO 1983

SUBLETHAL
1043 DUVAL,W.S., FINK,R.P. THE SUBLETHAL EFFECTS OF WATER-SOLUBLE HYDROCARBONS ON THE PHYSIOLOGY AND BEHAVIOUR OF SELECTED MARINE FAUNA $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-16 OTTAWA ONTARIO 1981

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

SUBLITTORAL
0076 BESLIER,A., BIRRIEN,J.L., CABIOCH,L., LARSONNEUR,C., LEBORGNE,L. DISTRIBUTION OF HYDROCARBONS FROM THE AMOCO-CADIZ OIL SPILL IN SUBLITTORAL SEDIMENTS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 209-224 1980

0097 BOUCHER,G. IMPACT OF AMOCO-CADIZ OIL-SPILL ON INTER-TIDAL AND SUBLITTORAL MEIOFAUNA $ CTR ETUD OCEANOG AND BIOL MARINE ROSCOFF ROSCOFF FRANCE MARINE POLLUTION BULLETIN 11 (4) P. 95-101 1980

0157 CABIOCH,L., DAUVIN,J.C., BERMUDEZ,J.M., BABIO,C.R. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON THE SUBLITTORAL BENTHOS NORTH OF BRITTANY $ STN BIOL PL G TEISSIER ROSCOFF FRANCE HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 192-208 1980

SUBSEA
1038 TSANG,G. THEORETICAL STUDY FOR THE SCALE MODELLING OF SUBSEA CONTAINMENT DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-11 OTTAWA ONTARIO 1980

1063 GERMAN AND MILNE INC SUBSEA BLOWOUT CONTAINMENT SYSTEM CONCEPT ANALYSIS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-37 OTTAWA ONTARIO 1982

1122 TSANG,G. THEORETICAL STUDY FOR GUIDANCE OF MODEL STUDY OF SUBSEA BLOWOUT CONTAINMENT DEVICE $ ENVIRONMENTAL EMERGENCY BRANCH OTTAWA ONTARIO NORTH-TECH 1980

SUBSOILS
0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

SUBSTANCE
0209 DAVIS,W.P., SCOTT,G.I., GETTER,C.D., HAYES,M.O., GUNDLACH,E.R. METHODOLOGY FOR ENVIRONMENTAL ASSESSMENTS OF OIL AND HAZARDOUS SUBSTANCE SPILLS $ BEARS BLUFF FIELD STN JOHNS ISL SC HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 246-256 1980

SU SUBSTANCES

0321 GUNKEL,W., GASSMANN,G. OIL DISPERSANTS AND RELATED SUBSTANCES IN THE MARINE-ENVIRONMENT $ BIOL ANSTALT HELGOLAND MEERESSTN HELGOLAND GER HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 164-181 1980

0631 PAGE,I. A FRAMEWORK FOR UNREASONABLE RISK IN THE TOXIC SUBSTANCES CONTROL ACT (TSCA) $ CALTECH ENVIRONM QUAL LAB PASADENA CA ANNALS OF THE NEW YORK ACADEMY OF SCIENCES 363 P. 145-166 1981

SU

1068 COPENHAVER,E.D., WILKINSON,B.K. MOVEMENT OF HAZARDOUS SUBSTANCES IN SOIL A BIBLIOGRAPHY VOLUME 2 PESTICIDES $ PB80-113111 228P. 1979

1123 ANONYMOUS EXISTING AND PROPOSED PROGRAMS AND MEASURES FOR THE PREVENTION OF DISCHARGES OF OIL OR HAZARDOUS POLLUTING SUBSTANCES FROM ONSHORE AND OFFSHORE FACILITIES $ MINISTRY OF THE ENVIRONMENT OTTAWA ONTARIO 1981

SUBSTATION

0022 ANON. OIL SPILLS FROM SUBSTATION ELECTRICAL EQUIPMENT $ IEEE TRANS POWER APPAR SYST PAS-99 (3) P. 925-927 1980

0371 IEEE OIL SPILLS FROM SUBSTATION ELECTRICAL EQUIPMENT $ IEEE TRANSACTIONS ON POWER APPARATUS AND SYSTEMS 99 (3) P. 925-927 1980

SUBSTRATA

0470 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES I COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

SUBSURFACE

0112 BROOKS,J.M., WIESENBURG,D.A., BURKE,R.A. JR., KENNICUTT,M.C. GASEOUS AND VOLATILE HYDROCARBON INPUTS FROM A SUBSURFACE OIL SPILL IN THE GULF OF MEXICO $ DEP OCEANOGR TEXAS A AND M UNIV COLLEGE STATION TX ENVIRON SCI TECHNOL 15 (8) P. 951-9 1981

0851 BOEHM,P.D., FLEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-I BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

SUBTIDAL

0048 BAKKE,T., JOHNSEN,T.M. RESPONSE OF A SUBTIDAL SEDIMENT COMMUNITY TO LOW LEVELS OF OIL HYDROCARBONS IN A NORWEGIAN FJORD $ INST OF MAR RES NORDNES-BERGEN NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 633-639 1979

0158 CABIOCH,L. POLLUTION OF SUBTIDAL SEDIMENTS AND DISTURBANCE OF BENTHIC-ANIMAL COMMUNITIES $ ROSCOFF BIOL STN FR AMBIO 9 (6) P. 294-296 1980

SUBTIDAL
0610 NYBLADE,C.F. THE STRAIT OF JUAN-DE-FUCA INTERTIDAL AND SUBTIDAL BENTHOS $ WASHINGTON UNIV FRIDAY HARBOR FRIDAY HARBOR LABS PB-80-142136 144P. 1979

SUCH,C
0753 SUCH,C., LE ROUX,C. TREATMENT OF OIL RESIDUES FROM OIL SPILLS TREATMENT METHODS AND MECHANICAL PROPERTIES $ TRAITEMENT DES DECHETS PETROLIERS ISSUS DE MAREE NOIRE METHODES DE TRAITEMENT ET CARACTERISTIQUES MECANIQUES LAB CENT DES PONTS ET CHAUSSEES FR LAB CENT PONTS CHAUSSEES BULL LIAISON LAB PONTS CHAUSSEES (1210) P. 89-100 1980

0754 SUCH,C., LEROUX,C. TREATMENT OF WASTES FROM OIL SPILLS $ LAB CENT PONTS AND CHAUSSEES PARIS FRANCE ENVIRONMENTAL TECHNOLOGY LETTERS 2 (4) P. 161-170 1981

SUCH,W
0989 SUCH,W. BEING SMART BEFORE THE DAMAGE IS DONE EXPERIENCES WITH PIPELINE ACCIDENTS IN EUROPE $ UMSCHAU DAS WISSENSCHAFTSMAGAZIN 82 (4) 119P. 1982

SUFFIELD
1091 GILL,S.D. THE SUFFIELD FIELD TRIAL OF AERIALLY APPLIED OIL SPILL DISPERSANTS $ PETROLEUM ASSOCIATION FOR CONSERVATION OF THE CANADIAN ENVIRONMENT OTTAWA CANADA 1981

SUGARMAN,P.C
0618 OLLA,B.L., PEARSON,W.H., SUGARMAN,P.C., WOODRUFF,D.L., BLAYLOCK,J.W. THE EFFECTS OF PETROLEUM HYDROCARBONS ON CHEMORECEPTION AND BEHAVIOR IN THE DUNGENESS-CRAB "CANCER-MAGISTER" $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-82-116716 83P. 1981

0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

SULFUR
0516 MIDDLEDITCH,B.S. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME V HYDROCARBONS BIOCIDES AND SULFUR $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-178451 106P. 1980

0959 OGATA,M., FUJISAWA,K., MIYAKE,Y. TRANSFER OF ORGANIC SULFUR COMPOUNDS IN PETROLEUM FROM CRUDE OIL SUSPENSION TO THE MUSSEL $ MED SCH OKAYAMA UNIV OKAYAMA JAPAN IGAKU TO SEIBUTSUGAKU 103 (3) P. 243-7 1981

SUNDARAM,T.R
0755 SUNDARAM,T.R. SPREAD OF OIL SLICKS ON A NATURAL BODY OF WATER $ TS ASSOCIATES INC COLUMBIA MD JOURNAL OF HYDRONAUTICS 14 (4) P. 124-126 1980

0990 SUNDARAM,T.R. SPREADS OF OIL SLICKS ON A NATURAL BODY OF WATER REPLY $ TS ASSOCIATES INC COLUMBIA MD AIAA JOURNAL 20 (3) P. 446-448 1982

SUNKEN
0041 AXIAK,V., SALIBA,L.J. EFFECTS OF SURFACE AND SUNKEN CRUDE-OIL ON THE BEHAVIOR OF A SEA-URCHIN $ UNIV MALTA DEPT MATH AND SCI TAL MALTA MARINE POLLUTION BULLETIN 12 (1) P. 14-19 1981

SUPERFUND
0799 VORBACH,J.E., AHERN,J.F. INTERNATIONALIZATION OF SUPERFUND $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 17-21 1979

SUPERPORTS
0323 HABERCOM,G.E. JR. SUPERTANKERS AND SUPERPORTS 1964-JUNE 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-812977 209P. 1980

0324 HABERCOM,G.E. JR. SUPERTANKERS AND SUPERPORTS 1970-JUNE 1980 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-812985 126P. 1980

0555 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SUPERTANKERS AND SUPERPORTS 1970-SEPTEMBER 1981 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ PB-82-801135 135P. 1981

0556 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SUPERTANKER AND SUPERPORTS 1964-SEPTEMBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-82-801150 219P. 1981

0953 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SUPERTANKERS AND SUPERPORTS 1974-MAY 1982 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB82-866250 96P. 1982

SUPERTANKER
0330 HANN,R.W. JR. UNIT OPERATIONS UNIT PROCESSES AND LEVEL OF RESOURCE REQUIREMENTS FOR THE CLEANUP OF THE OIL SPILL FROM THE SUPERTANKER AMOCO-CADIZ $ TEX A AND M UNIV COLLEGE STATION PROC - OIL SPILL CONF LOS ANGELES CALIF P. 147-161 1979

0556 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SUPERTANKER AND SUPERPORTS 1964-SEPTEMBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-82-801150 219P. 1981

SUPERTANKERS
0323 HABERCOM,G.E. JR. SUPERTANKERS AND SUPERPORTS 1964-JUNE 1980 (CITATIONS FROM THE NTIS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-812977 209P. 1980

0324 HABERCOM,G.E. JR. SUPERTANKERS AND SUPERPORTS 1970-JUNE 1980 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-812985 126P. 1980

0555 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SUPERTANKERS AND SUPERPORTS 1970-SEPTEMBER 1981 (CITATIONS FROM THE ENGINEERING INDEX DATA BASE) $ PB-82-801135 135P. 1981

SUPERTANKERS

0953 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA SUPERTANKERS AND SUPERPORTS 1974-MAY 1982 (CITATIONS FROM OCEANIC ABSTRACTS) $ PB82-866260 96P. 1982

SUPERVISION

0794 VERHAGEN,L.H.J.M. ERGONOMIC ASPECTS OF CENTRALIZED SUPERVISION AND CONTROL OF OIL MOVEMENT AND STORAGE $ TWENTE UNIV TECHNOL WORKING GROUP ERGON ENSCHEDE NETHERLANDS IN: AUNE,A.B., VLIESTSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS P. 57-61 1980

SURFACE

0004 AHEARN,D.G., COOK,W.L., CROW,S.A. EFFECTS OF POLLUTANTS ON MICROBIAL ACTIVITIES IN ESTUARINE SURFACE FILMS $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-171183 28P. 1981

0041 AXIAK,V., SALIBA,L.J. EFFECTS OF SURFACE AND SUNKEN CRUDE-OIL ON THE BEHAVIOR OF A SEA-URCHIN $ UNIV MALTA DEPT MATH AND SCI TAL MALTA MARINE POLLUTION BULLETIN 12 (1) P. 14-19 1981

0077 BESPALOVA,E.A., MILITSKIY,Y.A., POKROVSKAYA,I.V., MIROVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (10) P. 54-58 1978

0079 BEZORUDKO,D.V., KRUPA,A.A., MEDVEDEV,M.I., PASHCHENKO,A.A., TARASEVICH,Y. APPLICATION OF HYDROPHOBILIZED PEKLITE FOR PURIFICATION OF SURFACE WATERS FROM OIL $ ACAD SCI UKSSR INST COLLOID CHEM AND WATER CHEM KIEV UKSSR UKRAINSKII KHIMICHESKII ZHURNAL 46 (1) P. 51-54 1980

0100 BOGORODSKII,V.V., SHEVELEVA,T.I., TARASHKEVICH,V.N. DAMPING OF WATER-WAVES BY SURFACE OIL FILMS $ ARCT AND ANTARCT RES INST LENINGRAD USSR DOKLADY AKADEMII NAUK SSSR 255 (1) P. 198-201 1980

0181 COAST GUARD WASHINGTON, D.C. THE WINDWAVE AND TURBULENCE OBSERVATION PROGRAM (WAVTOP) THE MEASUREMENT OF PARAMETERS CONTROLLING DOWNWARD MIXING OF OIL FROM THE SEA SURFACE $ AD-A083-014/1 103P. 1979

0249 ESTES,J.E., WILSON,M., HAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

0254 FAZAL,R.A., MILGRAM,J.H. THE EFFECTS OF SURFACE PHENOMENA ON THE SPREADING OF OIL ON WATER $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-163629 73P. 1979

0260 FIELDER,G., TELFER,D.J., HALL,T.S., WILSON,L., FRYER,R.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD 22P. 1980

SURFACE

0261 FIELDER,G., TELFER,D.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 24P. 1979

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

0824 WU,R.S.S. DIFFERENCES IN THE TOXICITIES OF AN OIL DISPERSANT AND A SURFACE ACTIVE AGENT TO SOME MARINE ANIMALS AND THEIR IMPLICATIONS IN THE CHOICE OF SPECIES IN TOXICITY TESTING $ FISHERIES RES STN ABERDEEN HONG KONG MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 157-163 1981

0836 ARSI,K.H.Y., KARD,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

0887 FOGELQVIST,E., LAGERKVIST,S., LINDROTH,P. PETROLEUM HYDROCARBONS IN THE ARCTIC OCEAN SURFACE WATER $ GOTHENBURG UNIV DEPT ANALYT AND MARINE CHEM GOTHENBURG SWEDEN MARINE POLLUTION BULLETIN 13 (6) P. 211-213 1982

0897 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

0898 GLASS,A.W., HORTON,B.R. 'SLIKTRAK' COMPUTER SIMULATION OF SURFACE POLLUTION PROBLEMS ARISING FROM OFFSHORE OIL SPILLS $ SHELL INT PET MAATSCH THE HAGUE NETH PROC OF THE WORLD PET CONGR 10TH 5 P. 3-12 1980

0913 JOHNSON,J.W., CROSWELL,W.F. CHARACTERISTICS OF 13.9 GHZ RADAR SCATTERING FROM OIL FILMS ON THE SEA SURFACE $ NASA LANGLEY RES CTR HAMPTON VA RADIO SCIENCE 17 (3) P. 611-617 1982

0914 KALMYKOV,A.I., PICHUGIN,A.P. SPECIAL FEATURES OF THE DETECTION OF SEA SURFACE INHOMOGENEITIES BY THE RADAR METHODS $ OSOBENNOSTI OBNARUZHENIYA NEODNORODNOSTEI MORSKOI POVERKHNOSTI RADIOLOKATSIONNYM METODOM ACAD OF SCI OF THE UKR SSR INST OF RADIOPHYS AND ELECTRON KIEV IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 754-761 1981

SURFACE

0986 KITAMURA,Y., TAKAHASHI,T. WIND INDUCED DRIFT OF OIL SLICKS SPREAD ON WATER SURFACE $ OKAYAMA UNIV DEPT IND CHEM OKAYAMA JAPAN KAGAKU KOGAKU RONBUNSHU 8 (2) P. 194-198 1982

0958 NESTEROVA,M.P., ANUFRIEVA,N.M., LEVINA,R.M. INVESTIGATION OF CHEMICAL AGENTS CONTAINING THE SPREAD OF OIL ON A WATER SURFACE $ WATER RESOUR 8 (1) P. 85-91 1981

0971 RAWSON,R.F., LISKOW,C.L. RADAR REFLECTIVITY MEASUREMENTS OF OCEAN SURFACE WITH AND WITHOUT A SURFACE COAT OF OIL $ ENVIRON RES INST OF MICH ANN ARBOR USA DIG - INT GEOSCI AND REMOTE SENS SUMP (IGARSS'81) 2 P. 1266-1273 1981

1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204082 118P. 1979

1003 LEENHEER,J.A., STUBEN,H.A., NOYES,T.I. CHEMICAL AND PHYSICAL INTERACTIONS OF AN IN SITU OIL-SHALE PROCESS WATER WITH A SURFACE SOIL $ US GEOL SURV DENVER COLO OIL SHALE SYMP PROC 14TH GOLDEN COLO P. 357-375 1981

1005 RAYNER,D.M. EFFECT OF SURFACE TEMPERATURE ON THE REMOTE-SENSING OF OIL USING LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-2 OTTAWA ONTARIO 1980

SURFACE-ACTIVE

0001 ABRAMZON;A.A., MURASHEV,I.A., SEMANOV,G.N. REQUIREMENTS FOR SURFACE-ACTIVE AGENTS (SAAS) USED AS PETROLEUM COLLECTORS $ LENSOVET TECHNOL INST LENINGRAD USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (6) P. 979-982 1980

SURFACTANT

0309 GOSWAMI,A.K. STABILITY OF OIL WATER EMULSIONS USING BINARY-MIXTURES OF PROTEIN AND SURFACTANT AS EMULSIFIERS $ KISHORI RAMAN COLL DEPT CHEM MATHURA INDIA ANNALI DI CHIMICA 69 (7-8) P. 389-397 1979

0653 POUCHELON,A., MEUNIER,J., LANGEVIN,D., CHATENAY,D., CAZABAT,A.M. LOW INTERFACIAL-TENSIONS IN 3 PHASE SYSTEMS OBTAINED WITH OIL-WATER- SURFACTANT MIXTURES $ ECOLE NORM SUPER SPECT HERTZIENNE LAB PARIS FRANCE CHEMICAL PHYSICS LETTERS 76 (2) P. 277-281 1980

0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIRRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

SURFACTANTS

0214 DEPRAETERE,P., FLORENCE,A.T., PUISIEUX,F., SEILLER,M. SOME PROPERTIES OF OIL-IN-WATER EMULSIONS STABILIZED WITH MIXED NON-IONIC SURFACTANTS (BRIJ 92 AND BRIJ 96) $ UNIV STRATHCLYDE DEPT PHARMACEUT GLASGOW INTERNATIONAL JOURNAL OF PHARMACEUTICS 5 (4) P. 291-304 1980

0529 MURASHEV,I.A., SHOKIN,V.V., SEMANOV,G.N. USE OF SURFACTANTS AS COLLECTORS OF PETROLEUM $ USSR TR - TSENTR NAUCHNO-ISSLED INST MORSK FLOTA 257 P. 67-72 1980

0616 OGINO,K., ONISHI,M. INTERFACIAL ACTION OF NATURAL SURFACTANTS IN OIL-WATER SYSTEMS $ FAC SCI AND TECHNOL NODA CHIBA JAPAN JOURNAL OF COLLOID AND INTERFACE SCIENCE 83 (1) P. 18-25 1981

0686 RUCKENSTEIN,E., KRISHNAN,R. EFFECT OF ELECTROLYTES AND MIXTURES OF SURFACTANTS ON THE OIL-WATER INTERFACIAL-TENSION AND THEIR ROLE IN FORMATION OF MICRO-EMULSIONS $ SUNY BUFFALO FAC ENGN AND APPL SCI BUFFALO NY JOURNAL OF COLLOID AND INTERFACE SCIENCE 76 (1) P. 201-211 1980

0731 SMIRNOVA,A.V., PLOTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

SURFICIAL

0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

SURVEILLANCE

0042 BACKLUND,L. AIRBORNE OIL SPILL SURVEILLANCE SYSTEMS IN SWEDEN $ SWED SPACE CORP SOLNA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 305-311 1979

0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YUKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

0634 PARASHAR,S., STAPLETON,G., WORSFOLD,R., ONEIL,R., GRAY,L. ASSESSMENT OF SAR FOR OIL POLLUTION SURVEILLANCE IN THE ICE ENVIRONMENT $ REMOTEC APPLICAT INC ST JOHNS NEWFOUNDLAND IN: NORWEGIAN INST TECHNOL POAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 3 P. 99-123 1979

0811 WHITE,J.R., SCHMIDT,R.E., PLAGE,W.E. AIREYE REMOTE-SENSING SYSTEM FOR OIL SPILL SURVEILLANCE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 301-304 1979

SURVIVAL

0155 BUSDOSH,M. LONG-TERM EFFECTS OF THE WATER SOLUBLE FRACTION OF PRUDHOE-BAY CRUDE-OIL ON SURVIVAL MOVEMENT AND FOOD SEARCH SUCCESS THE ARCTIC AMPHIPOD BOECKOSIMUS-(MONISIMUS)-AFFINIS $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 167-180 1981

0212 DELIKAT,D.S. IXTOC-1 OIL SPILL AND ATLANTIC RIDLEY-TURTLE SURVIVAL $ US COAST GUARD WASHINGTON, D.C. PROC OF THE SUMP ON COASTAL AND OCEAN MANAGE 2ND 1 P. 312-319 1980

0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

0499 MAZMANIDI,N.D., KOTOV,A.M. EFFECT OF PETROLEUM DISPERSANTS ON THE SURVIVAL RATE AND SOME PHYSIOLOGICAL-BIOCHEMICAL BLOOD INDEXES OF THE BLACK SEA SEA-BASS (SPICARA-SMARIS-L.) $ USES NAUCHNO-ISSLED INST MORSK RYBN KHOZ OKEANOGR BATUMI USSR GIDROBIOL ZH 17 (1) P. 74-8 1981

0822 WONG,C.K., ENGELHARD,F.R., STRICKLER,J.R. SURVIVAL AND FECUNDITY OF DAPHNIA-PULEX ON EXPOSURE TO PARTICULATE OIL $ UNIV OF OTTAWA ONT CAN BULL ENVIRON CONTAM TOXICOL 26 (5) P. 606-612 1981

0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

SUSPENDED

0111 BROOKS,J.M., HUANG,W.H., ESTES,E.L. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME II INVESTIGATIONS OF SURFICIAL SEDIMENTS AND SUSPENDED PARTICULATES AT BUCCANEER FIELD $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192403 286P. 1980

0257 PEELY,R.A., LAMB,M.F. A STUDY OF THE DISPOSAL OF SUSPENDED SEDIMENT FROM THE FRASER AND SKAGIT RIVERS INTO NORTHERN PUGET-SOUND USING LANDSAT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-131501 56P. 1979

0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

SUSPENSION

0959 UGATA,M., FUJISAWA,K., MIYAKE,Y. TRANSFER OF ORGANIC SULFUR COMPOUNDS IN PETROLEUM FROM CRUDE OIL SUSPENSION TO THE MUSSEL $ MED SCH OKAYAMA UNIV OKAYAMA JAPAN IGAKU TO SEIBUTSUGAKU 103 (3) P. 243-7 1981

SUTER,W.R
0756 SUTER,W.R. AUTOMATIC DIVERTER REDUCES SHALLOW BLOWOUT HAZARD $ WORLD OIL 182 (5) 53P. 1976

SVENDSEN,J.A
0757 SVENDSEN,J.A., FURUHOLT,E.M. INTERACTIVE SIMULATION OF OIL SPILL RECOVERY OPERATIONS $ SHIP RES INST NORWAY TRONDHEIM NORWAY IN: AUNE,A.B., VLIETSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS P. 321-327 1980

SWANSON,C
0251 FARLOW,J.S. (ED), SWANSON,C. (ED) DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION (SYMPOSIUM) 1978 $ EPA OFF OF RES AND DEV EDISON NJ ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP 147P. 1978

SWEDEN
0042 BACKLUND,L. AIRBORNE OIL SPILL SURVEILLANCE SYSTEMS IN SWEDEN $ SWED SPACE CORP SOLNA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 305-311 1979

SWIFT,R.N
0359 HOGE,F.E., SWIFT,R.N. OIL FILM THICKNESS MEASUREMENT USING AIRBORNE LASER INDUCED WATER RAMAN BACKSCATTER $ NASA WALLOPS FLIGHT CENT WALLOPS ISL VA APPL OPT 19 (19) P. 3269-3281 1980

SYLVESTER,N.D
0758 SYLVESTER,N.D., BYESEDA,J.J. OIL/WATER SEPARATION BY INDUCED-AIR FLOTATION $ UNIV OF TULSA OKLA SPEJ SOC PET ENG J 20 (6) P. 579-590 1980

SYNCRUDE
0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

SYNFUEL
0931 MERCER,B.W., NAKAMIYA,W., PETTY,S.E., STRAND,J.A., MAHLUM,D.D. ASSESSMENT OF SYNFUEL SPILL CLEANUP OPTIONS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 45P. 1981

SYNTHETIC
0238 DEPARTMENT OF ENERGY WASHINGTON, D.C. SYNTHETIC FUELS AND THE ENVIRONMENT: AN ENVIRONMENTAL AND REGULATORY IMPACTS ANALYSIS $ 652P. 1980

0354 HO,C.H., MA,C.Y., CLARK,B.R., GUERIN,M.R., KAO,T.K., EPLER,J.L. SEPARATION OF NEUTRAL NITROGEN-COMPOUNDS FROM SYNTHETIC CRUDE-OILS FOR BIOLOGICAL TESTING $ OAK RIDGE NATL LAB DIV ANALYT CHEM OAK RIDGE TN ENVIRONMENTAL RESEARCH 22 (2) P. 412-422 1980

SYNTHETIC
0470 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

0481 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 263-275 1981

0661 RAO,T.K., EPLER,J.L., GUERIN,M.R., CLARK,B.R., HU,C.H. MUTAGENICITY OF NITROGEN COMPOUNDS FROM SYNTHETIC CRUDE-OILS: COLLECTION SEPARATION AND BIOLOGICAL TESTING $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 19P. 1980

SYNTHETIC-APERTURE-RADAR
0249 ESTES,J.E., WILSON,M., HAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

SYOMINA,T.K
0412 KORULYOV,A.M., SYOMINA,T.K., NAZMANIDI,N.D. THE EFFECT OF WATER SOLUBLE OIL FRACTION ON SOME PROPERTIES OF BLOOD-SERUM OF THE BLACK SEA FISH SPICARA-SMARIS $ MV LOMONOSOV STATE UNIV FAC BIOL COMPARAT PHYSIOL ANALYZER LAB MOSCOW BIOLOGIYA MORYA-MARINE BIOLOGY (1) 69P. 1980

SYSTEMS
0042 BACKLUND,L. AIRBORNE OIL SPILL SURVEILLANCE SYSTEMS IN SWEDEN $ SWED SPACE CORP SOLNA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 305-311 1979

0043 BAGNULO,L. RECOVERY SYSTEMS FOR DISPERSED OIL PRODUCTS $ SOC REMCO ITALY AES 2 (2) P. 53-5 1980

0046 BAKEMAN,P.E. JR., ARMSTRONG,A.L. SYSTEMS APPROACH TO BEACH PROTECTION FOR OIL SPILL INCIDENTS PHASE 1. FEASIBILITY STUDY $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OHIO PB-80-198997 56P. 1975

0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

0333 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. DISPOSAL SYSTEMS FOR OIL RECOVERED FROM MARINE SPILLS $ SCS ENG LONG BEACH CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 15-28 1978

SYSTEMS

U334 HANSEN,W.G., ROSS,D.E., SINCLAIR,J.R. OIL SPILL DEBRIS DISPOSAL HARDWARE SYSTEMS: METHODS FOR CONCEPTUALIZATION AND DEVELOPMENT $ SCS ENG LONG BEACH CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 507-513 1979

U394 KARELL,M. RELIABILITY AND SAFETY ANALYSIS OF ACTIVITY MEASURING SYSTEMS I RELIABILITY ANALYSIS OF THE STACK MONITORING SYSTEM 1317A $ AKTIEBOLAGET ATOMENERGI STUDSVIK (SWEDEN) STUDSVIK-IP-78-3 26P. 1978

U450 LICHTE,H.W., BRESLIN,M.K., SMITH,G.F., GRAHAM,D.J., URBAN,K.W. PERFORMANCE TESTING OF FOUR SKIMMING SYSTEMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101353 92P. 1981

U464 LITTLE,A.D. INC CAMBRIDGE MA FEASIBILITY OF METHODS AND SYSTEMS FOR REDUCING LNG TANKER FIRE HAZARDS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 342P. 1980

U531 MURZAKOV,R.M., SABANENKOV,S.A., SYUNYAEJ,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 674-677 1980

U600 NEUSTADTER,E., WHITTINGHAM,K.P., GRAHAM,D.E. INTERFACIAL RHEOLOGICAL PROPERTIES OF CRUDE-OIL-WATER SYSTEMS $ PB RES CTR DIV NEW TECHNOL SUNBURY THAMES MIDDLESEX ENGLAND IN: SHAH, D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 307-326 1981

U616 OGINO,K., ONISHI,M. INTERFACIAL ACTION OF NATURAL SURFACTANTS IN OIL-WATER SYSTEMS $ FAC SCI AND TECHNOL NODA CHIBA JAPAN JOURNAL OF COLLOID AND INTERFACE SCIENCE 83 (1) P. 18-25 1981

U653 POUCHELON,A., MEUNIER,J., LANGEVIN,D., CHATENAY,D., LAZABAT,A.M. LOW INTERFACIAL-TENSIONS IN 3 PHASE SYSTEMS OBTAINED WITH OIL-WATER- SURFACTANT MIXTURES $ ECOLE NORM SUPER SPECT HERTZIENNE LAB PARIS FRANCE CHEMICAL PHYSICS LETTERS 76 (2) P. 277-281 1980

U655 PSARAFTIS,H., BAIRD,A.V., HYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ MIT CAMBRIDGE MASS OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 407-414 1980

U656 PSARAFTIS,H.N., BAIRD,A.V., HYHART,J.D. NATIONAL RESPONSE CAPABILITY TO OIL SPILLS: A SYSTEMS APPROACH $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-223104 9P. 1980

U663 RAVENNA,K.C. COLLISION-AVOIDANCE SYSTEMS THE EVOLUTION CONTINUES $ SPERRY MAR SYST SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 193-197 1980

SYSTEMS

0830 ZVEREVA,T.V., YAKOVLEV,E.I. IMPROVEMENT IN METHODS OF RATING OIL PIPELINE SYSTEMS $ NEFTYANOE KHOZYAISTVO (7) P. 66-68 1980

1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204082 118P. 1979

1004 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASES II AND III $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-3 OTTAWA ONTARIO 1980

1009 CENTRE FOR COLD OCEAN RESOURCES MICROWAVE SYSTEMS FOR DETECTING OIL SLICKS IN ICE-INFESTED WATERS: PHASE I - LITERATURE REVIEW AND FEASIBILITY STUDY $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-81-3 OTTAWA ONTARIO 1981

1059 MACKAY,D. OIL-WATER INTERFACIAL-TENSIONS IN CHEMICAL DISPERSANT SYSTEMS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-32 OTTAWA ONTARIO 1982

1134 LANGFELDT,J.N., WOLD,M. FULL SCALE TESTS WITH OIL RECOVERY SYSTEMS OFFSHORE $ OIL POLLUTION CONTROL - R AND D PROGRAM OSLO NORWAY 1981

SYUNYAEV,Z.I

0531 MURZAKOV,R.M., SABANENKOV,S.A., SYUNYAEV,Z.I. INFLUENCE OF PETROLEUM RESINS ON COLLOIDAL STABILITY OF ASPHALTENE CONTAINING DISPERSE SYSTEMS $ IM GUBKIN PETROLEUM AND GAS IND INST MOSCOW USSR CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 16 (9-10) P. 674-677 1980

SZAKALS,A

0117 BUDAY,F., SASS,L., TOROK,G., GERGELY,Z., SZAKACS,A., VUKUS,I. MICROBIOLOGICAL DEGRADATION OF OIL POLLUTION OF SOILS $ HIGH PRESSURE RES INST SZASZHALOMBATTA HUNGARY ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE 27 (3) 258P. 1980

SZETO,F

1081 MACKAY,D., SZETO,F. EFFECTIVENESS OF OIL SPILL DISPERSANTS - DEVELOPMENT OF A LABORATORY METHOD AND RESULTS FOR SELECTED COMMERCIAL PRODUCTS $ INSTITUTE FOR ENVIRONMENTAL STUDIES TORONTO CANADA 1981

TAFFEL,W

0759 TAFFEL,W., EPSTEIN,E. A STUDY OF RAPID BIODEGRADATION OF OILY WASTES THROUGH COMPOSTING $ ENERGY RESOURCES CO INC CAMBRIDGE MA AD-A081-432/7 57P. 1979

TAFT,J.B

0087 ANDERSON,C.P., KILLEEN,T.J., TAFT,J.B., BENTA,A.P. IMPROVED IDENTIFICATION OF SPILLED OILS BY INFRARED-SPECTROSCOPY $ UNIV OF CONN GROTON ENVIRON SCI TECHNOL 14 (10) P. 1230-1234 1980

TAGATZ,M.E

0760 TAGATZ,M.E., IVEY,J.M., OGLESBY,J.L. TOXICITY OF DRILLING-MUD BIOCIDES TO DEVELOPING ESTUARINE MACROBENTHIC COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY GULF BREEZE FLA PB-81-106031 10P. 1980

TAIGA

0741 SPARROW,E.B., DAVENPORT,C.V., GORDON,K.C. RESPONSE OF MICROORGANISMS TO HOT CRUDE-OIL SPILLS ON A SUBARCTIC TAIGA SOIL $ CORVALLIS ENVIRONMENTAL RESEARCH LAB COLLEGE ALASKA PB-80-217722 16P. 1978

TAILINGS

0256 FEDKENHEUER,A.W., BROWNE,J. RECLAMATION RESEARCH FOR THE FUTURE AT SYNCRUDE CANADA LTD: SOIL SIMULATION REVEGETATION STUDIES ON TAILINGS SAND $ SYNCRUDE CANADA LTD EDMONTON (ALBERTA) 8P. 1979

0673 KIPMEESTER,J.A., SIRIANNI,A.F. RECOVERY OF WATER AND BITUMEN FROM THE ATHABASCA OIL SAND TAILINGS PONDS $ NATL RES COUNCIL CANADA ONT JOURNAL OF CANADIAN PETROLEUM TECHNOLOGY 20 (1) P. 131-133 1981

TAKAHASHI,T

0761 TAKAHASHI,T., KITAMURA,Y., NAKADA,K. SPREADING OF OIL SLICKS ON CALM WATER SURFACES EFFECT OF THE VISCOUS DRAG OF AN OIL SLICK ON ITS SPREADING RATE $ OKAYAMA UNIV JPN IND CHEM ENG 21 (2) P. 244-250 1981

0916 KITAMURA,Y., TAKAHASHI,T. WIND INDUCED DRIFT OF OIL SLICKS SPREAD ON WATER SURFACE $ OKAYAMA UNIV DEPT IND CHEM OKAYAMA JAPAN KAGAKU KOGAKU RONBUNSHU 8 (2) P. 194-198 1982

TAKEUCHI,N

0933 MEYERS,P.A., TAKEUCHI,N., ROBBINS,J.A. PETROLEUM HYDROCARBONS IN SEDIMENTS OF SAGINAW-BAY LAKE HURON $ UNIV OF MICH ANN ARBOR USA J GREAT LAKES RES 6 (4) P. 315-327 1980

TALISMAN,L.V

0762 TALISMAN,L.V., SEMENOVA,I.N. PROBLEM OF THE INTRODUCTION OF WATER-GASOLINE EMULSIONS $ VSES NAUCHNO-ISSLED INST NEFT PROM MOSCOW USSR KHIM TEKHNOL TOPL MASEL (8) P. 27-30 1980

TAM,W.K

0763 TAM,W.K., PURVES,W.F. EXPERIMENTAL EVALUATION OF OIL SPILL COMBUSTION PROMOTERS $ ARCTEC CAN LTD KANATA ONT P. 415-421 1980

TAMPA-BAY

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1980

TANK

0084 BJORKLUND,R.A., KUSHIDA,R.D. FLASHBACK FLAME-ARRESTER DEVICES FOR FUEL CARGO TANK VAPOR VENTS $ COAST GUARD WASHINGTON, D.C. AD-A100-040/5 127P. 1981

TANK

0161 CARD,J.C., COJEEN,M.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-711/3 174P. 1979

0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

0225 DOYLE,P.F. CARGO TANK REGISTRATION STATISTICS $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-80-217169 424P. 1980

0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

0401 KEILLOR,J.P. THE HAZARDS OF TANK SHIPS AND BARGES TRANSPORTING PETROLEUM PRODUCTS ON THE GREAT-LAKES $ UNIV WISCONSIN INST SEA GRANT MADISON WI COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 319-336 1980

0481 MAGOTT,R.J., BASS,R.L. III, MORROW,I.B. BULK CARRIER OPERATIONS SAFETY ENHANCEMENT PROJECT PHASE III VOLUME I: TANK ATMOSPHERE CONTROL FULL SCALE MEASUREMENTS AND MODEL CORRELATIONS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-80-217375 138P. 1980

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0738 SNIDER,W.D., SHEEHAN,D.F., JOHNSON,E.K. OVERVIEW OF CURRENT AND PROPOSED TANK VESSEL SAFETY AND POLLUTION PREVENTION MEASURES $ US COAST GUARD SEATTLE WASH PROC - SHIP TECHNOL AND RES (STAR) SYMP 4TH P. 93-119 1977

TANKBARGE

0552 NATIONAL RESEARCH COUNCIL WASHINGTON, D.C. WORKSHOP ON REDUCING TANKBARGE POLLUTION APRIL 15-16 1980 $ AD-A096-126/8 541P. 1980

0697 SCHENKER,E. REDUCING TANKBARGE POLLUTION $ NATIONAL RESEARCH COUNCIL WASHINGTON, D.C. AD-A102-118/1 79P. 1981

TANKER

0075 BERTRAND,A.R.V. MAJOR OFFSHORE OIL SPILL ACCIDENTS AND THE TANKER ACCIDENT DATA BANK (1955-1979) OF THE INSTITUT FRANCAIS DU PETROLE $ INST FR DU PET REV INST FR PET 24 (3) P. 483-541 1979

TANKER

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0182 COAST GUARD WASHINGTON, D.C. DEVELOPING TANKER CASUALTY AND TANKER TRAFFIC DATABASES FOR 1969-1977 $ AD-A085-655/9 384P. 1979

0253 FAY,J.A. UNUSUAL FIRE HAZARD OF LNG TANKER SPILLS $ MASS INST OF TECHNOL CAMBRIDGE COMBUST SCI TECHNOL 7 (2) P. 47-49 1973

0376 IRELAND,G.F. TANKER SAFETY AND POLLUTION PREVENTION HOW MUCH IS ENOUGH? $ US COAST GUARD WASHINGTON, D.C. PROC - SHIP TECHNOL AND RES (STAR) SYMP 5TH HELD IN CONJUNCTION WITH SNAME SPRING MEET CORONADO CALIF P. 5-19 1980

0400 KAZMIERCZAK,L.J. MAJOR SPILL RESPONSE PLANNING FOR TANKER OPERATIONS $ SUN CO PHILADELPHIA PA PROC - OIL SPILL LOS ANGELES CALIF P. 123-125 1979

0402 KEITH,V.F. REAL TIME SIMULATION OF OIL TANKER OPERATIONS IN VALDEZ ALASKA $ ECO INC ANNAPOLIS MD IN: SOC COMP SIMULAT PROCEEDINGS OF THE 1980 SUMMER COMPUTER SIMULATION CONFERENCE P. 405-410 1980

0464 LITTLE,A.D. INC CAMBRIDGE MA FEASIBILITY OF METHODS AND SYSTEMS FOR REDUCING LNG TANKER FIRE HAZARDS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 342P. 1980

0467 LITTLE,R.C. CHEMICAL DEMULSIFICATION OF TANKER CRUDE EMULSIONS $ NAVAL RESEARCH LAB WASHINGTON, D.C. AD-A083-389/7 57P. 1980

0477 LYSYJ,I. TREATMENT EFFECTIVENESS: OIL TANKER BALLAST WATER FACILITY $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101361 189P. 1981

0629 OZKAYNAK,H., MURPHY,B.L., WATSON,J.L. COMPARATIVE RISK ASSESSMENT TECHNIQUE FOR TANKER OIL SPILLS $ ENVIRON RES AND TECHNOL INC LEXINGTON MASS PROC - OIL SPILL LOS ANGELES CALIF P. 37-43 1979

0662 RATH,R.J., MCKENZIE,J.H., CEBRON,E.J., HAMMOND,J.G. PUGET-SOUND TANKER SIZE OPTIMIZATION $ OCEANOGRAPHIC INST OF WASHINGTON SEATTLE AD-A102-496/7 222P. 1981

0793 VERNBERG,E.J., ALTEKRUSE,E.B., BUTLER,S.O. PROCEEDINGS OF CONFERENCE ON OIL TANKER TRANSPORTATION: AN INTERDISCIPLINARY ANALYSIS OF NATIONAL AND INTERNATIONAL PULI $ SOUTH CAROLINA UNIV COLUMBIA AD-A080-085/4 250P. 1980

0835 ANON PROCEEDINGS OF THE TANKER CONFERENCE 1980 $ WASHINGTON,D.C. PROC TANKER CONF 1980 CORONADO CALIF 247P. 1980

TANKER

0991 TUPGI,R.S., NORONHA,R.J., PONDEKAR,S.P., SENGUPTA,R. DISSOLVED PETROLEUM HYDROCARBONS ALONG THE OIL TANKER ROUTE IN THE SOUTHERN BAY OF BENGAL $ NATL INST OCEANOG DONA PAULA DAMAN AND DIU INDIA INDIAN JOURNAL OF MARINE SCIENCES 11 (2) P. 175-176 1982

1098 WATERS,W.G., HEAVER,T.D., VERRIER,T. OIL POLLUTION FROM TANKER OPERATIONS -- CAUSES COSTS CONTROLS $ CENTRE FOR TRANSPORTATION STUDIES VANCOUVER CANADA 1980

TANKERS

0328 HALL,J.D. INVESTIGATION OF CLEANING PROCEDURES FOR CONVERTING PETROLEUM TANKERS TO POTABLE WATER SERVICE $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A105-633/2 50P. 1981

0493 MARCUS,H.S., DEWHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

TANKS

0393 KARELIN,Y.A., ZHUKOV,D.D., SAIDAMINOV,I.A. BIOCHEMICAL TREATMENT OF OIL CONTAINING WASTEWATER IN AERATION TANKS $ CHEM TECHNOL FUELS OILS 15 (7-8) P. 540-544 1979

0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

0435 LEE,W.H. BEHAVIOR OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT PRINCE-WILLIAM-SOUND ALASKA $ LOS ALAMOS NATL LAB LOS ALAMOS NM TRANSACTIONS OF THE AMERICAN NUCLEAR SOCIETY 38 P. 101-102 1981

0641 PENMAN,A.D.M. SOIL STRUCTURE INTERACTION AND DEFORMATION PROBLEMS WITH LARGE OIL TANKS $ BUILDING RESEARCH STATION WATFORD ENGLAND PB-80-227192 20P. 1978

1041 CORROSION SERVICE COMPANY LIMITED EVALUATION AND PREVENTION OF CORROSION LEAKS ON BURIED STORAGE TANKS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-14 OTTAWA ONTARIO 1981

TANKSHIP

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1980

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

TANKSHIP
0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND EI-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

TANNER,G.T
0995 WEBB,J.W., TANNER,G.T., KOERTH,B.H. OIL SPILL EFFECTS ON SMOOTH CORDGRASS IN GALVESTON-BAY TEXAS $ TEXAS A AND M UNIV DEPT RANGE SCI COLLEGE STN TX CONTRIBUTIONS IN MARINE SCIENCE 24 P. 107-114 1981

TAR
0110 BRITISH CARBONIZATION RESEARCH ASSOCIATION CHESTERFIELD ENGLAND PROCEEDINGS OF THE SYMPOSIUM ON TAR ACID-EXTRACTION 11 APRIL 1978 $ 59P. 1979

0751 STRAUGHAN,D. DISTRIBUTION OF TAR AND RELATIONSHIP TO CHANGES IN INTERTIDAL ORGANISMS ON SANDY BEACHES IN SOUTHERN CALIFORNIA $ UNIV OF SOUTH CALIF LOS ANGELES PROC - OIL SPILL CONF LOS ANGELES CALIF P. 591-601 1979

0840 BEDINGER,C.A., NULTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-1 BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV S HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

TAR-BALL
0925 MAGEE,R.G., HANNAH,R.P. IXTOC-I OIL SPILL AN EXAMPLE OF TAR-BALL FORMATION TRANSPORT AND FATE $ ENG LAB COMPUTER SCI CORP NSTL STATION MISS J MISS ACAD SCI 26 (0) P. 22-27 1981

TARASEVICH,Y
0079 BEZRUDKO,O.V., KRUPA,A.A., MEDVEDEV,M.I., PASHCHENKO,A.A., TARASEVICH,Y. APPLICATION OF HYDROPHOBILIZED PERLITE FOR PURIFICATION OF SURFACE WATERS FROM OIL $ ACAD SCI UKSSR INST COLLOID CHEM AND WATER CHEM KIEV UKSSR UKRAINSKII KHIMICHESKII ZHURNAL 46 (1) P. 51-54 1980

TARASHKEVICH,V.N
0100 BUGORODSKII,V.V., SHEVELEVA,T.I., TARASHKEVICH,V.N. DAMPING OF WATER-WAVES BY SURFACE OIL FILMS $ ARCT AND ANTARCT RES INST LENINGRAD USSR DOKLADY AKADEMII NAUK SSSR 255 (1) P. 198-201 1980

TASSAN,S
0984 SORENSEN,B.M., STURM,B., TASSAN,S. SOME RESULTS FROM EXPERIMENTS ON REMOTE-SENSING OF WATER QUALITY AND OIL POLLUTION IN THE MEDITERRANEAN SEA $ COMMISS EUROPEAN COMMUNITIES JOINT RES CTR ISPRA ITALY IN: ENVIRONM RES INST MICHIGAN PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT 1 AND 2 P. 417-424 1982

TASTE
0969 RADOSKI,E. REMOVAL OF HYDROCARBON TASTE AND ODOR FROM POTABLE WATER BY REPLACEABLE CARBON CONTAINING FILTER CARTRIDGES $ ARMY MOBILITY EQUIPMENT RESEARCH AND DEVELOPMENT COMMAND FORT BELVOIR VA AD-A107-878/1 21P. 1981

TATTERSON,G.B
0030 ASIF,A.M., TATTERSON,G.B. OIL WATER DISPERSION MECHANISMS IN AGITATED VESSELS $ UNIV S CAROLINA COLUMBIA SC IN: VEZIROGLU,T.N. MULTIPHASE TRANSPORT 5 VOLS FUNDAMENTALS REACTOR SAFETY APPLICATIONS P. 133-144 2932P. 1980

TAYLOR,A
0764 TAYLOR,A. STRATEGIC PETROLEUM RESERVE WEST HACKBERRY OIL STORAGE CAVERN FIRE AND SPILL OF SEPTEMBER 21 1978: AN ENVIRONMENTAL ASSESSMENT FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 68OP. 1980

TAYLOR,M.W
0635 PARNAROUSKIS,M.C., TAYLOR,M.W., LIND,C.D., RAJ,P.P.K., CECE,J.M. VAPOR CLOUD EXPLOSION STUDY $ US COAST GUARD WASHINGTON, D.C. CONGR INT SUR LE GAZ NAT LIQUEFIE 6TH 2 16P. 1980

TECHNIQUE
0206 CUEVAS,P.A., FLORES,R.G.C., CASTELLANOS,T.R. GAS-CHROMATOGRAPHY AS A TECHNIQUE FOR OIL SPILL SOURCE IDENTIFICATION $ CROMATOGRAFIA DE GAS COMO TECNICA PARA LA IDENTIFICACION DE FUENTES DE DERRAME DE CRUDO INST MEX DEL PET MEXICO CITY REV INST MEX PET 12 (4) P. 30-41 1980

0629 UZKAYNAK,H., MURPHY,B.L., WATSON,J.L. COMPARATIVE RISK ASSESSMENT TECHNIQUE FOR TANKER OIL SPILLS $ ENVIRON RES AND TECHNOL INC LEXINGTON MASS PROC - OIL SPILL LOS ANGELES CALIF P. 37-43 1979

1114 BONNIER,P.E. SLUDGE FARMING A TECHNIQUE FOR THE DISPOSAL OF OILY REFINERY WASTES $ CONCAWE 1980

TECHNOLOGIES
0494 MARCUS,M.D., BERGMAN,H.L., STOLLER,D.A., BROWN,S.K., MOLHOLT,P.A. BIBLIOGRAPHY OF AQUATIC ECOSYSTEM EFFECTS ANALYTICAL METHODS AND TREATMENT TECHNOLOGIES FOR ORGANIC COMPOUNDS IN ADVANCED FOSSIL-FUEL PROCESSING EFFLUENTS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. PB-80-177140 366P. 1980

TECHNOLOGY
0537 NATIONAL BUREAU OF STANDARDS BOULDER COLO LIQUEFIED-NATURAL-GAS TECHNOLOGY $ 54P. 1973

0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIUKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

0657 PURNELL,J. A DEEPWATER OIL AND GAS TECHNOLOGY ASSESSMENT $ GEOLOGICAL SURVEY RESTON VA PB-81-243032 253P. 1981

TECHNOLOGY
0712 SERRAJIAN,N.M. ENVIRONMENTAL DATA ENERGY TECHNOLOGY CHARACTERIZATIONS: PETROLEUM $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 81P. 1980

0857 BREUEL,A. (ED.) POLLUTION TECHNOLOGY REVIEW NO 87: HOW TO DISPOSE OF OIL AND HAZARDOUS CHEMICAL SPILL DEBRIS $ USA 420P. 1981

0955 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA OFFSHORE PLATFORMS: TECHNOLOGY REGULATIONS AND ENVIRONMENTAL EFFECTS 1977-JUNE 1982 (CITATIONS FROM THE SELECTED WATER RESOURCES ABSTRACTS DATA BASE) $ PB82-868381 173P. 1982

1066 MYERS,A. CURRENT BIBLIOGRAPHY OF OFFSHORE TECHNOLOGY AND OFFSHORE LITERATURE CLASSIFICATION $ ASR MARKETING BERKHAMSTED HERTZ 1981

1075 ANONYMOUS PROCEEDINGS OF THE TWELFTH ANNUAL OFFSHORE TECHNOLOGY CONFERENCE - VOLUMES 1-4 $ OFFSHORE TECHNOLOGY CONFERENCE COMMITTEE HOUSTON TEXAS 1980

1100 SPEIGHT,J.G. THE CHEMISTRY AND TECHNOLOGY OF PETROLEUM $ MARCEL DEKKER INC NEW YORK 1980

TEL
0066 BELOUS,A.R., NOVIKOV,V.I., IZOTOV,V.I. DETERMINATION OF TEL CONTENT IN GASOLINES BY GAMMA-ABSORPTION METHOD $ CHEM TECHNOL FUELS OILS 15 (11-12) P. 913-914 1979

TELEDETECTION
0798 VISSER,H. TELEDETECTION OF THE THICKNESS OF OIL FILMS ON POLLUTED WATER BASED ON THE OIL FLUORESCENCE PROPERTIES $ TNO DELFT NETH APPL OPT 18 (11) P. 1746-1749 1979

TELEOST
0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

0965 PAYNE,J.F. METABOLISM OF COMPLEX MIXTURES OF OIL SPILL SURFACTANT COMPOUNDS BY A REPRESENTATIVE TELEOST (SALMO-GAIRDNERI) CRUSTACEAN (CANCERIRRORATUS) AND MOLLUSK (CHLAMYS-ISLANDICUS) $ RES RESOUR SERV DEP FISH OCEANS ST JOHN'S NF CANADA BULL ENVIRON CONTAM TOXICOL 28 (3) P. 277-80 1982

TELFER,D.J
0260 FIELDER,G., TELFER,D.J., HALL,T.S., WILSON,L., FRYER,R.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD 22P. 1980

0261 FIELDER,G., TELFER,D.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON, D.C. 24P. 1979

TELFORD,A.S
0514 METGE,M., TELFORD,A.S. OIL IN MOVING PACK ICE LABORATORY STUDY $ ESSO RESOUR CAN LTD POAC 79 INT CONF ON PORT AND OCEAN ENG UNDER ARCTIC COND 5TH P. 255-264 1979

TEMPERATURE
1005 RAYNER,D.M. EFFECT OF SURFACE TEMPERATURE ON THE REMOTE-SENSING OF OIL USING LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EL-80-2 OTTAWA ONTARIO 1980

TEMPERATURES
0623 URDZIK,C.J., GARDFALD,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

0677 ROGERSON,A., BERGER,J. THE EFFECTS OF COLD TEMPERATURES AND CRUDE-OIL ON THE ABUNDANCE AND ACTIVITY OF PROTOZOA IN A GARDEN SOIL $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CANADIAN JOURNAL OF ZOOLOGY 59 (8) P. 1554-1560 1981

TEMPORARY
0674 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: PARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

TENORE,K.
0432 LEE,R.F., DORNSEIF,B., GONSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

TERMINAL
0189 COMPTON,M. TERMINAL SAFETY GUIDELINES ESTABLISHED $ CARGO SUST INT 7 (6) P. 109, 111, 113, 115 1980

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

TERMINALS
0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

TERNARY
0475 LUND,G., HOLT,S.L. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

TERRAIN
0387 JOHNSON,L.A., COLLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

0985 SPARROW,E.B. LONG-TERM RESPONSE OF SOIL MICRO-ORGANISMS TO CRUDE-OIL SPILLS ON PERMA-FROST TERRAIN IN INTERIOR ALASKA USA $ INST OF WATER RESOURCES UNIV OF ALASKA FAIRBANKS ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 50-51 1981

TERRESTRIAL
0118 BUHITE,T.R. CLEANUP OF A COLD WEATHER TERRESTRIAL PIPELINE SPILL $ ALYESKA PIPELINE SERV CO ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 367-369 1979

0405 KINAKO,P.O.S. SHORT-TERM EFFECTS OF OIL POLLUTION ON SPECIES NUMBERS AND PRODUCTIVITY OF A SIMPLE TERRESTRIAL ECOSYSTEM $ UNIV PORT HARCOURT SCH BIOL SCI PORT HARCOURT ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 87-91 1981

0507 MCKENDRICK,J.D., LAPERRIER,J.O., LOVNACHAN,T.E. COLD CLIMATE OIL SPILLS: A TERRESTRIAL AND FRESHWATER RESEARCH REVIEW $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-159121 93P. 1981

0939 NATIONAL RESEARCH COUNCIL WASHINGTON,D.C. ARCTIC TERRESTRIAL ENVIRONMENTAL RESEARCH PROGRAMS OF THE OFFICE OF ENERGY RESEARCH DEPARTMENT OF ENERGY: EVALUATION AND RECOMMENDATIONS $ PB82-197088 80P. 1982

TERRY,J.M
0765 TERRY,J.M., GORHAM,A.M., LARSON,D.M., PAUST,B.C., SCOLES,K.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

TEST
0311 GRAHAM,D.J., URBAN,R.H., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

TELFORD,A.S
0514 METGE,M., TELFORD,A.S. OIL IN MOVING PACK ICE LABORATORY STUDY $ ESSO RESOUR CAN LTD PDAC 79 INT CONF ON PORT AND OCEAN ENG UNDER ARCTIC COND 5TH P. 255-264 1979

TEMPERATURE
1005 RAYNER,D.M. EFFECT OF SURFACE TEMPERATURE ON THE REMOTE-SENSING OF OIL USING LASER FLUOROSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-2 OTTAWA ONTARIO 1980

TEMPERATURES
0623 URDZIK,C.J., GARDFALD,G.C. LETHAL AND SUBLETHAL EFFECTS OF SHORT-TERM ACUTE DOSES OF KUWAIT CRUDE- OIL AND A DISPERSANT COREXIT-9527 ON BAY SCALLOPS ARGOPECTEN-IRRADIANS (LAMARCK) AND 2 PREDATORS AT DIFFERENT TEMPERATURES $ UNIV RHODE ISL DEPT PLANT PATHOL AND ENTOMOL KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 5 (3) P. 195-210 1981

0677 ROGERSON,A., BERGER,J. THE EFFECTS OF COLD TEMPERATURES AND CRUDE-OIL ON THE ABUNDANCE AND ACTIVITY OF PROTOZOA IN A GARDEN SOIL $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CANADIAN JOURNAL OF ZOOLOGY 59 (8) P. 1554-1560 1981

TEMPORARY
0674 ROBSON,W., BLACKALL,P.J. SELECTION OF OIL SPILL LANDFILL DISPOSAL AND TEMPORARY STORAGE SITES ALONG THE BEAUFORT-SEA COAST $ ENVIRONM PROTECT SERV WHITEHORSE YUKON TERR CANADA IN: HARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 76-87 1980

TENORE,K
0432 LEE,R.F., DORNSEIF,B., GONSOULIN,F., TENORE,K., HANSON,R. FATE AND EFFECTS OF A HEAVY FUEL-OIL SPILL ON A GEORGIA SALT-MARSH $ SKIDAWAY INST OCEANOG SAVANNAH GA MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 125-143 1981

TERMINAL
0189 COMPTON,M. TERMINAL SAFETY GUIDELINES ESTABLISHED $ CARGO SUST INT 7 (6) P. 109, 111, 113, 115 1980

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL BEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

TERMINALS
0803 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

TERNARY
0475 LUND,G., HOLT,S.L. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

TERRAIN
0387 JOHNSON,L.A., COLLINS,C.M., SPARROW,E.B., JENKINS,T.F., DAVENPORT,C.V. THE FATE AND EFFECTS OF CRUDE-OIL SPILLED ON SUBARCTIC PERMAFROST TERRAIN IN INTERIOR ALASKA $ COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER NH AD-A095-491/7 77P. 1980

0985 SPARROW,E.B. LONG-TERM RESPONSE OF SOIL MICRO-ORGANISMS TO CRUDE-OIL SPILLS ON PERMA-FROST TERRAIN IN INTERIOR ALASKA USA $ INST OF WATER RESOURCES UNIV OF ALASKA FAIRBANKS ALASKA PROCEEDINGS OF THE 32ND ALASKA SCIENCE MEETING FAIRBANKS ALASKA 32 (0) P. 50-51 1981

TERRESTRIAL
0138 BUHITE,T.R. CLEANUP OF A COLD WEATHER TERRESTRIAL PIPELINE SPILL $ ALYESKA PIPELINE SERV CO ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 367-369 1979

0405 KINAKO,P.O.S. SHORT-TERM EFFECTS OF OIL POLLUTION ON SPECIES NUMBERS AND PRODUCTIVITY OF A SIMPLE TERRESTRIAL ECOSYSTEM $ UNIV PORT HARCOURT SCH BIOL SCI PORT HARCOURT ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 87-91 1981

0507 MCKENDRICK,J.D., LAPERRIER,J.D., LOVNACHAN,T.E. COLD CLIMATE OIL SPILLS: A TERRESTRIAL AND FRESHWATER RESEARCH REVIEW $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-159121 93P. 1981

0939 NATIONAL RESEARCH COUNCIL WASHINGTON,D.C. ARCTIC TERRESTRIAL ENVIRONMENTAL RESEARCH PROGRAMS OF THE OFFICE OF ENERGY RESEARCH DEPARTMENT OF ENERGY: EVALUATION AND RECOMMENDATIONS $ PB82-197088 80P. 1982

TERRY,J.M
0765 TERRY,J.M., GORHAM,A.H., LARSON,D.M., PAUST,B.C., SCALES,R.G. ALASKA OCS SOCIOECONOMIC STUDIES PROGRAM TECHNICAL REPORT NUMBER 30 NORTHERN AND WESTERN GULF OF ALASKA PETROLEUM DEVELOPMENT SCENARIOS: COMMERCIAL FISHING INDUSTRY ANALYSIS $ BUREAU OF LAND MANAGEMENT ANCHORAGE AK PB-80-166697 539P. 1980

TEST
0311 GRAHAM,J.J., URBAN,R.H., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

TEST

0347 HERMANN,M., CHAUDE,D., NEILL,N., BEDOUELLE,H., HOFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

0430 LAYNE,M.D. TEST AND EVALUATION OF THE TRECAN INCINERATOR $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A099-527/4 112P. 1981

0573 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA RAPID LEAK DETECTION WITH LIQUID-CRYSTALS: SIMPLE TEST PROCEDURE IS INEXPENSIVE AND ACCURATE $ PB-80-971300 1P.

0667 RENICK,R.T., GATES,J., SMITH,J.H. SIMPLE TEST OF DISPERSANT EFFECTIVENESS BASED ON INTERFACIAL-TENSION MEASUREMENTS $ STANFORD RES INST INT MENLO PARK CALIF FUEL 59 (4) P. 263-265 1980

0718 SHINN,J.H., CEDERWALL,R.T. SELECTING OPTIMUM PERIODS FOR ATMOSPHERIC DISPERSION TESTS OVER WATER SURFACES AT FRENCHMAN FLAT NEVADA TEST SITE $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 12P. 1981

0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., MUNDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

0960 O'NEAL,W.C., BIANCHINI,G.M., BLOCKER,K.E., HIPPLE,D.L., MOGAN,W.J. 500-M-EXP-3 SPILL TEST FACILITY FOR LIQUEFIED-GASEOUS-FUELS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 25P. 1981

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.M. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS I HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

TESTS

0091 BOBRA,A., MACKAY,D., SHIU,W.Y. DISTRIBUTION OF HYDROCARBONS AMONG OIL WATER AND VAPOR PHASES DURING OIL DISPERSANT TOXICITY TESTS $ UNIV OF TORONTO ONT BULL ENVIRON CONTAM TOXICOL 23 (4-5) P. 558-565 1979

0107 BRESLIN,M.K. PERFORMANCE TESTS OF HIGH SPEED ARV OIL SKIMMER $ COAST GUARD WASHINGTON, D.C. AD-A088-362/5 156P. 1980

0184 COHEN,S.H., LINDENMUTH,W.T., FARLOW,J.S. DEVELOPMENT AND TESTS OF AN AIR-JET OIL-BOOM $ HYDRONAUT INC LAUREL MD PROC - OIL SPILL CONF LOS ANGELES CALIF P. 493-497 1979

Tests

U321 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

U338 HARTMANN,B., STEINVALL,O., NIDEN,A. TESTS OF LASER INDUCED FLUORESCENCE FROM ALGAE AT SEA $ LASERINDUCERAD FLUORESCENS FRAAN ALGER RESULTAT FRAAN ETT BAATBUK RESEARCH INST OF NATIONAL DEFENCE STOCKHOLM (SWEDEN) 52P. 1979

U406 KLAIBER,T. TESTS FOR DETECTING LEAKS IN PETROLEUM PIPELINES $ TECHNISCHES MESSEN 47 (4) 157P. 1980

U513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.N. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPOR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

U718 SHINN,J.H., CEDERWALL,R.T. SELECTING OPTIMUM PERIODS FOR ATMOSPHERIC DISPERSION TESTS OVER WATER SURFACES AT FRENCHMAN FLAT NEVADA TEST SITE $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 12P. 1981

U719 SHINN,J.H. ENVIRONMENTAL ISSUES OF THE PROPOSED LNG SPILL TESTS AT FRENCHMAN FLATS: LNG WORKING GROUP REPORT NO. 1 $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 16P. 1981

U921 LICHTE,H.W., BORST,M., SMITH,G.F. TESTS OF THE SHELL SOCK SKIMMER ABOARD USNS POWHATAN $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OH PB82-220849 92P. 1981

1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174402 1980

1131 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

1134 LANGFELDT,J.N., WOLD,M. FULL SCALE TESTS WITH OIL RECOVERY SYSTEMS OFFSHORE $ OIL PULLUTION CONTROL - R AND D PROGRAM OSLO NORWAY 1981

Texas

0073 BERRYHILL,H.L. JR., SHIDELER,G.L., HOLMES,C.W., BARNES,S.S., HILL,G.W. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975: AN ATLAS AND INTEGRATED SUMMARY $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-217763 325P. 1977

0085 BLACKBURN,S.R. TEXAS 1979 EXPERIENCE WITH MARCO FILTERBELT SKIMMERS ON IXTOC-1 AND BURMAH-AGATE CRUDE OIL-SPILLS $ MARCO SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S P. 398-406 1980

TEXAS

0122 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY EXECUTIVE SUMMARY 1977 $ PB-82-106692 94P. 1978

0123 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME I CHAPTERS 1-10 $ PB-81-106718 660P. 1979

0124 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME II CHAPTERS 11-21 $ PB-81-106726 604P. 1979

0128 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975 BIOLOGY AND CHEMISTRY $ PB-81-137689 625P. 1976

0265 FLINT,R.W., RABALAIS,N.N. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975-1977 VOLUME I ECOSYSTEM DESCRIPTION $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-181506 358P. 1980

0266 FLINT,R.W., RABALAIS,N.N. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975-1977 VOLUME III STUDY AREA FINAL REPORTS $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-80-181522 650P. 1980

0452 LIEBOW,E.B., BUTLER,K.S., PLAUT,T.R., ARNOLD,V.L., FORD,G.H. TEXAS BARRIER ISLANDS REGION ECOLOGICAL CHARACTERIZATION: A SOCIOECONOMIC STUDY VOLUME 2: DATA APPENDIX $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-137812 575P. 1980

0480 MACKO,S.A., PARKER,P.L., BOTELLO,A.V. PERSISTANCE OF SPILLED OIL IN A TEXAS USA SALT-MARSH $ PORT ARANSAS MAR LAB MAR SCI INST UNIV TEX PORT ARANSAS TEX ENVIRON POLLUT SER P CHEM PHYS 2 (2) P. 119-128 1981

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

0840 BEDINGER,C.A., NULTON,C.P. ANALYSIS OF ENVIRONMENTAL AND TAR SAMPLES FROM THE NEARSHORE SOUTH TEXAS AREA AFTER OILING FROM THE IXTOC-I BLOWOUT $ SW RES INST OFF PLANNING AND PROGRAM DEV $ HOUSTON TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (2) P. 166-171 1982

0995 WEBB,J.W., TANNER,G.T., HOERTH,B.H. OIL SPILL EFFECTS ON SMOOTH CORDGRASS IN GALVESTON-BAY TEXAS $ TEXAS A AND M UNIV DEPT RANGE SCI COLLEGE STN TX CONTRIBUTIONS IN MARINE SCIENCE 24 P. 107-114 1981

TEXAS-LOUISIANA
0284 GALLAWAY,B.J. AN ECOSYSTEM ANALYSIS OF OIL AND GAS DEVELOPMENT ON THE TEXAS-LOUISIANA CONTINENTAL SHELF $ BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PB-81-247181 100P. 1981

TEXOMA
0098 BOEHM,P.D., FIEST,D.L. BIOLOGICAL/CHEMICAL SURVEY OF TEXOMA AND CAPLINE SECTOR SALT DOME BRINE DISPOSAL SITES OFF LOUISIANA 1978-1979 VOLUME VI DETERMINE HYDROCARBON COMPOSITION AND CONCEN-TRATION IN MAJOR COMPONENTS OF THE ECOSYSTEM $ DEPT OF ENERGY WASH, D.C. PB-81-174971 167P. 1980

THAPAR,R
0659 RAJESHWAR,K., DUBOW,J., THAPAR,R. RADIO-FREQUENCY ELECTRICAL PROPERTIES OF GREEN RIVER OIL-SHALES $ COLORADO STATE UNIV DEPT ELECT ENGN FT COLLINS CO CANADIAN JOURNAL OF EARTH SCIENCES 17 (9) P. 1315-1321 1980

THARAKAN,G.G
0766 THARAKAN,G.G., PSARAFTIS,H.N. A CRITICAL REVIEW OF OIL SPILL RISK ANALYSIS $ MIT CAMBRIDGE MA IN: IEEE OCEANS 81 CONFERENCE RECORD 1 AND 2 P. 933-938 1981

THAYER,W.L
0416 KUTONY,O., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES COUNC OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

THEBEAU,L.C
0223 DOMERACKI,D.D., GUNDLACH,E.R., THEBEAU,L.C. COASTAL PLANNING FOR OFFSHORE PETROLEUM DEVELOPMENT $ RES PLANNING INST INC COLUMBIA SC AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (9) 1661P. 1981

0884 ERNST,W.D., GUNDLACH,E.R., THEBEAU,L.C., SAUD,J.L. SENSITIVITY OF COASTAL ENVIRONMENTS TO SPILLED OIL: SOUTHERN CAROLINA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-188061 47P. 1982

THEORETICAL
1033 MACKAY,D., KRISMANSON,D.D., PICOT,J.J.C., SHEDLEY,J.B. THEORETICAL ASSESSMENT AND DESIGN STUDY OF THE AERIAL APPLICATION OF OIL SPILL DISPERSANTS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-6 OTTAWA ONTARIO 1980

1038 TSANG,G. THEORETICAL STUDY FOR THE SCALE MODELLING OF SUBSEA CONTAINMENT DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-11 OTTAWA ONTARIO 1980

1083 PICKLING,J.M. (JR.), HAHN,R.W. (JR.) THE CHEMICAL TREATMENT OF OIL SPILLS THEORETICAL PRACTICAL AND PHILOSOPHICAL CONSIDERATIONS $ TEXAS A AND M UNIVERSITY 1980

1122 TSANG,G. THEORETICAL STUDY FOR GUIDANCE OF MODEL STUDY OF SUBSEA BLOWOUT CONTAINMENT DEVICE $ ENVIRONMENTAL EMERGENCY BRANCH OTTAWA ONTARIO NORTH-TECH 1980

THEORY

0774 TOTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CURDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

0836 ARST,K.H.Y., KARO,P.G. THEORY OF THE RADIATION REGIME OF AN OIL FILM COATED SEA SURFACE LAYER IN THE NEAR INFRARED RANGE OF THE SPECTRUM $ K TEORII RADIATSIONNOGO REZHIMA POKRYTOGO NEFTYANOI PLENKOI PRIPOVERKHNOSTNOGO SLOYA MORYA V BLIZHNEI INFRAKRASNOI OBLASTI SPEKTRA ACAD OF SCI OF THE EST SSR INST OF THERMOPHYS AND ELECTROPHYS TALLIN IZV AKAD NAUK SSSR FIZ ATMOS OKEANA 17 (7) P. 737-745 1981

THERMAL

0077 BESPALOVA,E.A., MILITSKIY,Y.A., POKROVSKAYA,I.V., MIRUVSKII,V.G., RAEV,M.D., SHARKOV,E.A., ETKIN,V.S. SPECTRAL CHARACTERISTICS OF THERMAL RADIO-EMISSION FROM A SEA SURFACE POLLUTED BY PETROLEUM PRODUCTS $ SOV METEOROL HYDROL (12) P. 54-58 1978

0809 WHELAN,J.K., HUNT,J.M., HUC,A.Y. APPLICATIONS OF THERMAL DISTILLATION-PYROLYSIS TO PETROLEUM SOURCE ROCK STUDIES AND MARINE POLLUTION $ DEPT CHEM WOODS HOLE MA JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS 2 (1) P. 79-96 1980

0816 WILSON,A.R. AN EXPERIMENTAL THERMAL CORRECTION FOR PREDICTED OIL FILM THICKNESS IN ELASTOHYDRODYNAMIC CONTACTS $ SHELL RES LTD THORNTON RES CTR CHESTER CHI CHESHIRE ENGL IN: DOWSON,D., TAYLOR,C.M., GODET,M., BERTHE,D. THERMAL EFFECTS IN TRIBOLOGY P. 179-190 1980

THERMOPHYSICAL

0349 HEWITT,J.D., ROGERS,B.R. CHEMICAL CLASS FRACTIONATION AND THERMOPHYSICAL PROPERTY MEASUREMENTS OF SOLVENT REFINED COAL LIQUIDS $ OAK RIDGE NATL LAB DIV CHEM TECHNOL OAK RIDGE TN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 9P. 1980

THEW,M.T

0187 COLMAN,D.A., THEW,M.T., CORNEY,D.R. HYDROCYCLONES FOR OIL-WATER SEPARATION $ UNIV SOUTHAMPTON SOUTHAMPTON HAMPSHIRE ENGLAND IN: PRIESTLY,G., STEPHENS,H.S. PAPERS PRESENTED AT AN INTERNATIONAL CONF ON HYDROCYCLONES P. 143-165 1980

THICKNESS

0093 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,M.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PROC /9: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

THICKNESS

0359 HOGE,F.E., SWIFT,R.N. OIL FILM THICKNESS MEASUREMENT USING AIRBORNE LASER INDUCED WATER RAMAN BACKSCATTER $ NASA WALLOPS FLIGHT CENT WALLOPS ISL VA APPL OPT 19 (19) P. 3269-3281 1980

0520 MEEKS,D.G. PERFORMANCE OF SOME OIL DISPERSANTS ON OIL SLICKS OF VARYING THICKNESS $ BRITISH PETR CO LTD BP RES CTR CHERTSEY RD SUNBURY ON THAMES MIDDLESEX ENGLAND MARINE POLLUTION BULLETIN 11 (12) P. 348-352 1980

0798 VISSER,H. TELEDETECTION OF THE THICKNESS OF OIL FILMS ON POLLUTED WATER BASED ON THE OIL FLUORESCENCE PROPERTIES $ IND DELFT NETH APPL OPT 18 (11) P. 1746-1749 1979

0886 WILSON,A.R. AN EXPERIMENTAL THERMAL CORRECTION FOR PREDICTED OIL FILM THICKNESS IN ELASTOHYDRODYNAMIC CONTACTS $ SHELL RES LTD THORNTON RES CTR CHESTER CH1 CHESHIRE ENGL IN: DOWSON,D., TAYLOR,C.M., GODET,M., BERTHE,D. THERMAL EFFECTS IN TRIBOLOGY P. 179-190 1980

0978 SHEVELEVA,T.Y., KROPOTKIN,M.A., LEUS,N.B. METHOD OF MEASURING THE THICKNESS OF AN OIL FILM ON A WATER BASIN $ SOV METEOROL HYDROL (3) P. 72-74 1980

THIN

1006 RAYNER,D.M. THIN OIL FILM DETECTION LIMITS OF LASER FLUORUSENSORS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-80-3 OTTAWA ONTARIO 1980

THOMAS,B.L

0672 RILEY,R.G., THOMAS,B.L., ANDERSON,J.W., BEAN,R.M. CHANGES IN THE VOLATILE HYDROCARBON CONTENT OF PRUDHOE-BAY CRUDE-OIL TREATED UNDER DIFFERENT SIMULATED WEATHERING CONDITIONS $ BATTELLE PAC NORTHWEST LAB RICHLAND WA MAR ENVIRON RES 4 (2) P. 109-19 1980

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

THOMAS,M.P

0845 BLACK,W.T., HOLLOWAY,D.M., LUSCHER,U., NYMAN,D.J., THOMAS,M.P. STUDY OF THE FACTORS AFFECTING THE SAFETY OF ARCTIC PIPELINES $ DEPARTMENT OF TRANSPORTATION WASHINGTON,D.C. PB82-149030 114P. 1981

THOMAS,J.C

0854 BROWN,K.W., BRAMAND,M., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 251-261 1982

THOMAS,J.F

0085 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

THOMPSON,G.B

0767 THOMPSON,G.B., WU,R.S.S. TOXICITY TESTING OF OIL SLICK DISPERSANTS IN HONG-KONG $ FISHERIES RES STN ABERDEEN HONG KONG MARINE POLLUTION BULLETIN 12 (7) P. 233-237 1981

THOMSON,D.H

1022 CROSS,W.E., THOMSON,D.H. MACROBENTHOS $ BAFFIN ISLAND OIL SPILL WORKING REPORT # BIOS-80-3 OTTAWA ONTARIO 1981

THOMSON,V

1052 O'NEIL,R.A., THOMSON,V., NEVILLE,R.A. REMOTE-SENSING OF OIL DURING THE KURDISTAN SPILL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-25 OTTAWA ONTARIO 1981

THORNBURGH,K

0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

THREATS

0380 JACQUES,J.M., RENSON,M., DELMOTTE,A. THE DEVELOPMENT OF A MODEL FOR BIOLOGICAL CONTROL OF SHALLOW TROPICAL WATERS SUBJECTED TO PETROLEUM THREATS $ NAECON NV DRONGEN BELGIUM IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 727-735 1981

THUNVIK,R

0768 THUNVIK,R., BRAESTER,C. MODELING OF GROUND-WATER FLOW AROUND OIL STORAGE CAVERNS $ ROYAL INST TECHNOL DEPT LAND IMPROVEMENT AND DRAINAGE STOCKHOLM SWEDEN APPLIED MATHEMATICAL MODELLING 4 (3) P. 225-227 1980

THURBERG,F.P

0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

TIBBETTS,P.J.C

0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., ROWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD COUNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

TIDE

1095 FAIRHALL,D., JORDAN,P. BLACK TIDE RISING - THE WRECK OF THE AMOCO-CADIZ $ ANDRE DEUTSCH LIMITED LONDON 1980

TIETJEN,G

0901 GREGG,C.T., TIETJEN,G., HUTSON,J.Y. PRENATAL TOXICOLOGY OF SHALE-OIL RETORT WATER IN MICE $ UNIV CALIF LOS ALAMOS LOS ALAMOS NATL LAB LOS ALAMOS NM JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 795-804 1981

TIGNER,J

0416 KUTOWY,O., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES COUNC OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

TILL,S.M

0218 DICK,R., TILL,S.M., O'NEIL,R.A., COOKE,M. (ED), DENNIS,A.J. (ED) REMOTE-SENSING OF PAH BY LASER INDUCED FLUORESCENCE $ BARRINGER RES LTD REXDALE ONT CANADA CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 731-40 1980

TILLERY,J.B

0769 TILLERY,J.B. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME VIII TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192452 127P. 1980

0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

TILMAN,J

0638 PAUL,R., DELCARTE,E., TILMAN,J., GODEFROID,C. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF STREET TREES $ DEP BIOL VEG THEOR APPL FAC SCI AGRON ETAT GEMBLOUX BELG TRIB CEBEDEAU 33 (445) P. 547-53 1980

TISSUE

0090 BLAYLOCK,J.W., VANDERHORST,J.R., ANDERSON,J.W. ROLE OF TISSUE ANALYSIS FOR PETROLEUM HYDROCARBONS IN MARINE POLLUTION RESEARCH $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 15P. 1979

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

TISSUES

0929 MCKEOWN,B.A. LONG-TERM SUBLETHAL AND SHORT-TERM HIGH DOSE EFFECTS OF PHYSICALLY AND CHEMICALLY DISPERSED OIL ON ACCUMULATION AND CLEARANCE FROM VARIOUS TISSUES OF JUVENILE COHO-SALMON ONCORHYN-CHUS-KISUTCH $ SIMON FRASER UNIV BURNABY BC CAN MAR ENVIRON RES 5 (4) P. 295-300 1981

TITTARELLI,P

0771 TITTARELLI,P., BALDASSARRI,L.T., ZERLIA,T. IDENTIFICATION OF SPILLED CRUDE-OILS BY VAPORPHASE ULTRAVIOLET-ABSORPTION-SPECTROMETRY $ STAZ SPERIMENTALE COMBUSTIBILI,VIALE A DE GASPERI SAN DONATO MILANE ITALY ANALYTICAL CHEMISTRY 53 (11) P. 1706-1708 1981

TKACHENKO,D.A
0827 ZAKUPKA,V.A., KOZAK,V.A., VYKHRESTYUK,N.I., TKACHENKO,D.A. SEPARATION OF PETROLEUM CUTS AND LUBE OILS WITH DETERGENT ADDITIVES BY MEANS OF 2 STAGE CONTINUOUS LIQUID-CHROMATOGRAPHY $ ALL UNION PETR REFINING AND PETROCHEM IND RES AND DESIGN INST MOSCOW CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (11-1) P. 846-850 1979

TOERHAUG,M
0936 MUNDHEIM,O., TOERHAUG,M., HELGAKER,P. OFFSHORE BLOWOUT CONTROL $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING OSLO (NORWAY) 203P. 1981

TOIMIL,L.J
0053 BARNES,P.W., REIMNITZ,E., TOIMIL,L.J., HILL,H.R. FAST ICE THICKNESS AND SNOW DEPTH RELATIONSHIPS RELATED TO OIL ENTRAPMENT POTENTIAL PRUDHOE-BAY ALASKA $ US GEOL SURVEY WASHINGTON, D.C. IN: NORWEGIAN INST TECHNOL PROC /9: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING P. 1205-1225 1979

TOKAMAK
0381 JAPAN ATOMIC ENERGY RESEARCH INST TOKYO SAFETY ANALYSIS OF FUEL CIRCULATING SYSTEM FOR TOKAMAK EXPERIMENTAL FUSION REACTOR $ 161P. 1978

TOKYO
0381 JAPAN ATOMIC ENERGY RESEARCH INST TOKYO SAFETY ANALYSIS OF FUEL CIRCULATING SYSTEM FOR TOKAMAK EXPERIMENTAL FUSION REACTOR $ 161P. 1978

TOLUENE-2-PROPANOL-WATER
0475 LUND,G., HOLT,S.L. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

TOMSON,M.B
0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

TOOLS
0026 ANON. TOOLS TO BATTLE POLLUTION $ MAR ENG LOG 85 (6) P. 56-62 1980

TOPGI,R.S
0241 FONDEKAR,S.P., TOPGI,R.S., NORONHA,R.J. DISTRIBUTION OF PETROLEUM HYDROCARBONS IN GOA COASTAL WATERS $ NATL INST OCEANOG GOA INDIA INDIAN JOURNAL OF MARINE SCIENCES 9 (4) P. 286-288 1980

0991 TOPGI,R.S., NORONHA,R.J., FONDEKAR,S.P., SENGUPTA,R. DISSOLVED PETROLEUM HYDROCARBONS ALONG THE OIL TANKER ROUTE IN THE SOUTHERN BAY OF BENGAL $ NATL INST OCEANOG DONA PAULA DAMAN AND DIU INDIA INDIAN JOURNAL OF MARINE SCIENCES 11 (2) P. 175-176 1982

TOPHAM,D.R
0782 TOPHAM,D.R. DISPOSITION OF GAS-OIL MIXTURES TRAPPED UNDER ICE $ INST OF OCEAN SCI SIDNEY BC CAN J PHYS 58 (8) P. 1183-1190 1980

TOPINKA,J.A
0783 TOPINKA,J.A., TUCKER,L.R. LONG-TERM OIL CONTAMINATION OF FUCOID-MACROALGAE FOLLOWING THE AMOCO-CADIZ OIL SPILL $ BIGELOW LAB OCEAN SCI MCKOWN POINT/WEST BOOTHBAY HARBOR ME AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBONES ACTES COLLOQ INT P. 393-403 1979

TUROK,G
0187 BUDAY,F., SASS,L., TUROK,G., GERGELY,Z., SZAKACS,A., VOROS,I. MICROBIOLOGICAL DEGRADATION OF OIL POLLUTION OF SOILS $ HIGH PRESSURE RES INST SZASZHALOMBATTA HUNGARY ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE 27 (3) 258P. 1980

TUTH,J
0774 TUTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CORDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

TOXIC
0415 KUCHERENKO,L.A., KAMYSHOVA,V.K. DEPENDENCE OF THE TOXIC AND PROTECTIVE PROPERTIES OF SHALE-OILS ON THEIR CONTENTS OF WATER SOLUBLE PHENOLS $ MV LOMONO SOV STATE UNIV MOSCOW JOURNAL OF APPLIED CHEMISTRY OF THE USSR 54 (1) P. 112-114 1981

0423 LARSON,R.A., HUNT,L.L., BLANKENSHIP,D.W. FORMATION OF TOXIC PRODUCTS FROM A #2-FUEL-OIL BY PHOTOOXIDATION $ STROUD WATER RES CENT OF ACAD OF NAT SCI OF PHILADELPHIA AVONDALE ENVIRON SCI TECHNOL 11 (5) P. 492-496 1977

0631 PAGE,T. A FRAMEWORK FOR UNREASONABLE RISK IN THE TOXIC SUBSTANCES CONTROL ACT (TSCA) $ CALTECH ENVIRONM QUAL LAB PASADENA CA ANNALS OF THE NEW YORK ACADEMY OF SCIENCES 363 P. 145-166 1981

TOXICITIES
0824 WU,R.S.S. DIFFERENCES IN THE TOXICITIES OF AN OIL DISPERSANT AND A SURFACE ACTIVE AGENT TO SOME MARINE ANIMALS AND THEIR IMPLICATIONS IN THE CHOICE OF SPECIES IN TOXICITY TESTING $ FISHERIES RES STN ABERDEEN HONG KONG MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 157-163 1981

TOXICITY
0091 BOBRA,A., MACKAY,D., SHIU,W.Y. DISTRIBUTION OF HYDROCARBONS AMONG OIL WATER AND VAPOR PHASES DURING OIL DISPERSANT TOXICITY TESTS $ UNIV OF TORONTO ONT BULL ENVIRON CONTAM TOXICOL 23 (4-5) P. 558-565 1979

TOXICITY

0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

0300 GIDDINGS,J.M., PARKHURST,B.R., GEHRS,C.W., MILLEMANN,R.E. TOXICITY OF A COAL LIQUEFACTION PRODUCT TO AQUATIC ORGANISMS $ OAK RIDGE NATL LAB TENN BULL ENVIRON CONTAM TOXICOL 25 (1) P. 1-6 1980

0344 HELLMANN,H., MUELLER,D. TESTING THE TECHNICAL EFFICIENCY AND THE TOXICITY OF CHEMICAL AGENTS FOR DISPERSION OF CRUDE-OIL ON WATER SURFACES $ BUNDESANST GEWAESSERKD.KOBLENZ FED REP GER DTSCH GEWAESSERKD MITT 25 (2) P. 56-9 1981

0361 HOLLISTER,T.A., WARD,G.S., PARRISH,P.R. ACUTE TOXICITY OF A #6-FUEL-OIL TO MARINE ORGANISMS $ EG AND G BIONOM MARINE RES LAB PENSACOLA FL BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 24 (5) P. 656-661 1980

0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

0398 KARYDIS,M. THE TOXICITY OF CRUDE-OIL FOR THE MARINE ALGA SKELETONEMA-COSTATUM (GREVILLE) CLEVE IN RELATION TO NUTRIENT LIMITATION $ DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE HYDROBIOLOGIA 85 (2) P. 137-143 1981

0437 LEE,W.Y., MACKO,S.A., NICOL,J.A.C. CHANGES IN NESTING BEHAVIOR AND LIPID CONTENT OF A MARINE AMPHIPOD (AMPHITHOE-VALIDA) TO THE TOXICITY OF A NO-2-FUEL-OIL $ UNIV TEXAS INST FIS TEORICA PORT ARANSAS MARINE LAB PORT ARANSAS TX WATER AIR AND SOIL POLLUTION 15 (2) P. 185-195 1981

0438 LEE,W.Y., MORRIS,A., BOATWRIGHT,D. MEXICAN OIL SPILL A TOXICITY STUDY OF OIL ACCOMMODATED IN SEAWATER ON MARINE-INVERTEBRATES $ UNIV TEXAS INST MARINE SCI PORT ARANSAS MARINE LAB PORT ARANSAS TX MARINE POLLUTION BULLETIN 11 (8) P. 231-234 1980

0652 POPP,W. CONCERNING THE BACTERIAL TOXICITY OF MINERAL OIL FRACTIONS AND HYDRO-CARBONS $ BAYER LANDESANSTALT F WASSERFORSCH MUENCHEN GER O (D) P. 301-312 1978

0676 ROGERSON,A., BERGER,J. THE TOXICITY OF THE DISPERSANT COREXIT-9527 AND OIL DISPERSANT MIXTURES TO CILIATE-PROTOZOA $ UNIV TORONTO DEPT ZOOL TORONTO ONTARIO CHEMOSPHERE 10 (1) P. 33-39 1981

0724 SILVESTRO,E., CROCKER,M. TOXICITY OF CHEMICAL COMPOUNDS USED FOR ENHANCED OIL RECOVERY $ ENERGY RESOUR CO INC CAMBRIDGE MA 198P. 1980

TOXICITY

0760 TAGATZ,M.E., IVEY,J.M., OGLESBY,J.L. TOXICITY OF DRILLING-MUD BIOCIDES TO DEVELOPING ESTUARINE MACROBENTHIC COMMUNITIES $ ENVIRONMENTAL PROTECTION AGENCY GULF BREEZE FLA PB-81-106031 10P. 1980

0767 THOMPSON,G.B., WU,R.S.S. TOXICITY TESTING OF OIL SLICK DISPERSANTS IN HONG-KONG $ FISHERIES RES STN ABERDEEN HONG KONG MARINE POLLUTION BULLETIN 12 (7) P. 233-237 1981

0824 WU,R.S.S. DIFFERENCES IN THE TOXICITIES OF AN OIL DISPERSANT AND A SURFACE ACTIVE AGENT TO SOME MARINE ANIMALS AND THEIR IMPLICATIONS IN THE CHOICE OF SPECIES IN TOXICITY TESTING $ FISHERIES RES STN ABERDEEN HONG KONG MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 157-163 1981

0831 AHSANULLAH,M., EDWARDS,R.R.C., KAY,D.G., NEGILSKI,D.S. ACUTE TOXICITY TO THE CRAB PARAGRAP-SUS-QUADRIDENTATUS (EDWARDS,H.,MILNE) OF KUWAIT LIGHT CRUDE-OIL BP AB DISPERSANT AND AN OIL DISPERSANT MIXTURE $ MINIST CONSERVAT MARINE SCI LABS QUEENSCLIFF AUSTRALIA AUSTRALIAN JOURNAL OF MARINE AND FRESHWATER RESEARCH 33 (5) P. 459-464 1982

0877 DAVIS,P.H., SCHULTZ,T.W., SPIES,R.B. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 2 THE GROWTH BIOASSAY $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 287-294 1981

0886 FLEMING,W.J., SILEO,L., FRANSON,J.C. TOXICITY OF PRUDHOE-BAY CRUDE-OIL TO SANDHILL CRANES $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD JOURNAL OF WILDLIFE MANAGEMENT 46 (2) P. 474-478 1982

0908 HEDTKE,S.F., PUGLISI,F.A. SHORT-TERM TOXICITY OF 5 OILS TO 4 FRESH-WATER SPECIES $ US EPA ENVIRONMENTAL RES LAB DULUTH MN ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (4) P. 425-430 1982

0915 KARYDIS,M. TOXICITY OF A PHOTOOXIDIZED CRUDE-OIL ON 2 MARINE MICROALGAE $ NUCL RES CTR DEMOCRITOS DEPT BIOL AGHIA PARASKEVI ATTIKIS ATHENS GREECE BOTANICA MARINA 25 (1) P. 25-29 1982

0966 PEAKALL,D.B., HALLETT,D.J., BEND,J.R., FOUREMAN,G.L., MILLER,D.S. TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND ITS AROMATIC FRACTIONS TO NESTLING HERRING-GULLS $ CANADIAN WILDLIFE SERV NATL WILDLIFE RES CTR OTTAWA CANADA ENVIRONMENTAL RESEARCH 27 (1) P. 206-215 1982

0988 STUERMER,D.H., SPIES,R.B., DAVIS,P.H. TOXICITY OF SANTA-BARBARA SEEP OIL TO STARFISH EMBRYOS 1 HYDROCARBON COMPOSITION OF TEST SOLUTIONS AND FIELD SAMPLES $ LAWRENCE LIVERMORE NATL LAB CALIF USA MAR ENVIRON RES 5 (4) P. 275-286 1981

1018 FUY,H.G. ACUTE LETHAL TOXICITY OF PRUDHOE-BAY CRUDE-OIL AND COREXIT-9527 TO ARCTIC MARINE FISH AND INVERTEBRATES $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-3 OTTAWA ONTARIO 1982

TOXICITY

1086 BEAK CONSULTANTS LIMITED TOXICITY OF OIL AND OIL/ DISPERSANT MIXTURES $ EXXON CHEMICAL COMPANY HOUSTON TEXAS 1980

TOXICOLOGICAL

0729 SMALL,M.J., LAMBERT,W.P. A STOCHASTIC PROCEDURE FOR ALLOCATION OF FUNDS FOR TOXICOLOGICAL AND ENVIRONMENTAL RESEARCH ON THE BASIS OF HAZARD ASSESSMENT $ ARMY MEDICAL BIOENGINEERING RESEARCH AND DEVELOPMENT LAB FORT DETRICK MD AD-A091-688/2 8P. 1979

0900 GREENLEY,W.B., BARTA,W.D., EDDINGER,R.T. LITERATURE REVIEW OF TOXICOLOGICAL PROPERTIES OF PETROLEUM AND COAL-DERIVED OIL PRODUCTS $ UNIV DELAWARE NEWARK DE FUEL PROCESSING TECHNOLOGY 6 (1) P. 9-25 1982

TOXICOLOGY

0360 HOLLAND,L.M., SPALL,W.D., GARCIA,L.L., ROM,W.N. (ED), ARCHER,V.E. (ED) INHALATION TOXICOLOGY OF OIL-SHALE RELATED MATERIALS $ LOS ALAMOS SCI LAB UNIV CALIFORNIA LOS ALAMOS NM HEALTH IMPLIC NEW ENERGY TECHNOL (PARK CITY ENVIRON HEALTH CONF) P. 515-26 1979

0901 GREGG,C.T., TIETJEN,G., HUTSON,J.Y. PRENATAL TOXICOLOGY OF SHALE-OIL RETORT WATER IN MICE $ UNIV CALIF LOS ALAMOS LOS ALAMOS NATL LAB LOS ALAMOS NM JOURNAL OF TOXICOLOGY AND ENVIRONMENTAL HEALTH 8 (5-6) P. 795-804 1981

1080 EATON,J.G., PARRISH,P.R., HENDRICKS,A.C. AQUATIC TOXICOLOGY $ PROCEEDINGS OF THE THIRD ANNUAL SYMPOSIUM ON AQUATIC TOXICOLOGY AMERICAN SOCIETY FOR TESTING AND MATERIALS PHILADELPHIA PA 405P. 1978

TRACE

0056 BEAN,R.M., BLAYLOCK,J.W., RILEY,R.G. APPLICATION OF TRACE ANALYTICAL TECHNIQUES TO A STUDY OF HYDROCARBON COMPOSITION UPON DISPERSION OF PETROLEUM IN A FLOWING SEAWATER SYSTEM $ BATTELLE MEM INST PACIFIC NW LABS BATTELLE BLVD RICHLAND WA IN: PETRAKIS,L., WEISS,F.T. PETROLEUM IN THE MARINE ENVIRONMENT 185 P. 235-246 1980

0769 TILLERY,J.B. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1978-1979 VOLUME VIII TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192452 127P. 1980

0780 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

0829 WISE,S.A., CHESLER,S.N., HERTZ,H.S., MAY,W.E., GUENTHER,F.R. DETERMINATION OF TRACE LEVEL HYDROCARBONS IN MARINE BIOTA $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-126278 11P. 1980

TRALE

0820 WISE,S.A., CHESLER,S.N., GUENTHER,F.R., HERTZ,H.S. HILPERT,L.R. INTERLABORATORY COMPARISON OF DETERMINATIONS OF TRACE LEVEL HYDROCARBONS IN MUSSELS $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-140253 6P. 1980

TRACHEAL

0723 SIMPSON,K.W. ABNORMALITIES IN THE TRACHEAL GILLS OF AQUATIC INSECTS COLLECTED FROM STREAMS RECEIVING CHLORINATED OR CRUDE-OIL WASTES $ NEW YORK STATE DEPT HLTH DIV LABS AND RES ALBANY NY FRESHWATER BIOLOGY 10 (6) 581P. 1980

TRACK

0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

TRACKING

0035 AUDUNSON,T., MATHISEN,J.P., DALEN,V., HALDORSEN,J., KROGH,F. SLIKFORCAST A SIMULATION PROGRAM FOR OIL SPILL EMERGENCY TRACKING AND LONG-TERM CONTINGENCY PLANNING $ CONTINENTAL SHELF INST TRONDHEIM NORWAY IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 513-541 1981

0215 DEUTSCH,M., VOLLMERS,R.R., DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

1011 DAWE,B.R., PARASHAR,S.K., RYAN,J.P., MORSFOLD,R.D. THE USE OF SATELLITE IMAGERY FOR TRACKING THE KURDISTAN OIL SPILL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-6 OTTAWA ONTARIO 1981

1055 LEA,B.N. FIELD EVALUATION OF OIL SPILL TRACKING DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-28 OTTAWA ONTARIO 1982

TRACY,K.D

0775 TRACY,K.D., ZITRIDES,T.G. MUTANT BACTERIA AID EXXON WASTE SYSTEM $ ENVIRON DYN INC GREENVILLE SC HYDROCARBON PROCESS 59 (10) P. 95-98 1979

TRAFFIC

0182 COAST GUARD WASHINGTON, D.C. DEVELOPING TANKER CASUALTY AND TANKER TRAFFIC DATABASES FOR 1969-1977 $ AD-A085-655/9 384P. 1979

0750 STURCH,R.L., WENK,E. JR. VESSEL TRAFFIC SAFETY IN PUGET-SOUND $ UNIV OF WASH SEATTLE OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 181-186 1980

TRAFFIC

0894 FUGLUM,A., SMITH,K.M., BRATIANU,V., LAWRENCE,W.H.M., KUSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSHURRIS,A.L., MATTHEWS,N.F., DUMAS,L.M. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

0917 KUUMAN,C., DEBRUIN,D., SMIT,J.A. TRAFFIC ACCIDENTS AND SAFETY MEASURES ON DUTCH WATERWAYS $ PUBL WORKS DEPT DELTA DEPT DIV ENGN BERGEN OP ZOOM NETHERLANDS IN: PERMANENT INT ASSOC NAV CONGRESSES II P. 313-333 1981

TRAINING

0611 UBERHOLTZER,G.R., ACUFF,J.T. TARGETING SPILL PREVENTION AND CONTROL TRAINING TO THE RESPONSIBLE INDIVIDUAL $ NATL SPILL CONTROL SCH CORPUS CHRISTI TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 201-203 1979

0612 UBERHOLTZER,G.R., ACUFF,J.T. NATIONAL SPILL CONTROL SCHOOL A PILOT PROGRAM IN ENVIRONMENTAL TRAINING FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 52P. 1980

1104 ANONYMOUS A BASIC SPILL TRAINING HANDBOOK $ SEMINAR PUBLISHERS INC NEW YORK NY 1981

TRAJECTORY

0920 LANFEAR,K.J., AMSTUTZ,D.E. ENVIRONMENTAL STUDIES FOR OILSPILL TRAJECTORY MODELING IN THE SOUTH-EASTERN U.S. OUTER CONTINENTAL SHELF LEASING AREA $ US GEOL SURV USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 487-495 1981

1015 MARKO,J.R. DEEP-WATER BLOWOUT TRAJECTORY MODELS FOR THE LANCASTER-SOUND REGION $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-82-2 OTTAWA ONTARIO 1982

TRANS-ALASKA

0687 SAGE,B. RUPTURES IN THE TRANS-ALASKA OIL PIPELINE CAUSES AND EFFECTS $ AMBIO 9 (5) P. 262-263 1980

TRANSFER

0010 ALBERS,P.H. TRANSFER OF CRUDE-OIL FROM CONTAMINATED WATER TO BIRD EGGS $ US FISH AND WILDLIFE SERV PATUXENT WILDLIFE RES CTR LAUREL MD ENVIRONMENTAL RESEARCH 22 (2) P. 307-314 1980

0015 AMY,G.L., HINES,A.L., THOMAS,J.F., SELLECK,R.E. GROUNDWATER LEACHING OF ORGANIC POLLUTANTS FROM IN SITU RETORTED OIL-SHALE A MASS TRANSFER ANALYSIS $ UNIV OF CALIF BERKELEY ENVIRON SCI TECHNOL 14 (7) P. 831-835 1980

0472 LONG,E.R. PHYSICAL PROCESSES AND CRITICAL BIOLOGICAL AREAS IN THE VICINITY OF A PROPOSED PETROLEUM TRANSFER FACILITY $ NOAA SEATTLE WASH OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S P. 489-497 1980

TRANSFER

0959 UGATA,M., FUJISAWA,K., MIYAKE,Y. TRANSFER OF ORGANIC SULFUR COMPOUNDS IN PETROLEUM FROM CRUDE OIL SUSPENSION TO THE MUSSEL $ MED SCH OKAYAMA UNIV OKAYAMA JAPAN IGAKU TO SEIBUTSUGAKU 103 (3) P. 243-7 1981

TRANSPORT

0141 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VII TRANSPORT $ PB-80-186877 569P. 1979

0142 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VIII TRANSPORT $ PB-80-186885 592P. 1979

0549 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLO ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME X TRANSPORT $ PB-80-130099 933P. 1978

0774 TOTH,J. CROSS-FORMATIONAL GRAVITY-FLOW OF GROUNDWATER A MECHANISM OF THE TRANSPORT AND ACCUMULATION OF PETROLEUM (THE GENERALIZED HYDRAULIC THEORY OF PETROLEUM-MIGRATION) $ ALBERTA RES COUNCIL DIV GROUNDWATER EDMONTON IN: ROBERTS,W.H., CORDELL,R.J. PROBLEMS OF PETROLEUM MIGRATION 10 P. 121-167 1980

0849 BOEHM,P.D., BARAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

0897 GEARING,P.J., GEARING,J.N. TRANSPORT OF NO-2-FUEL-OIL BETWEEN WATER COLUMN SURFACE MICROLAYER AND ATMOSPHERE IN CONTROLLED ECOSYSTEMS $ UNIV RHODE ISL GRAD SCH OCEANOG KINGSTON RI MARINE ENVIRONMENTAL RESEARCH 6 (2) P. 133-143 1982

0925 MAGEE,R.G., HANNAH,R.P. IXTOC-I OIL SPILL AN EXAMPLE OF TAR-BALL FORMATION TRANSPORT AND FATE $ ENG LAB COMPUTER SCI CORP NSTL STATION MISS J MISS ACAD SCI 26 (0) P. 22-27 1981

TRANSPORTATION

0229 DRISCOLL,M.J. PIPELINE AND HAZARDOUS MATERIALS TRANSPORTATION SAFETY AND OIL SPILL REDUCTION $ US DOT WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 23-25 1979

0275 FRANKLIN,A.L. INECII: A COMPUTER PROGRAM FOR TRANSPORTATION RISK ASSESSMENT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 89P. 1980

0294 GEFFEN,C.A. POTENTIAL SAFETY AND ENVIRONMENTAL CONCERNS IN PETROLEUM TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 14P. 1979

TRANSPORTATION

0374 INGRAU,M.C., HEIDERSBACH,R.H., SHARP,R.K. PIPELINE TRANSPORTATION SAFETY R AND D WORKING GROUP MEETING PROCEEDINGS HELD AT CAMBRIDGE MASSACHUSETTS ON JUNE 30-JULY 1 1980 $ TRANSPORTATION SYSTEMS CENTER CAMBRIDGE MA PB-81-151359 70P. 1980

0473 LUCKRITZ,R.T., SCHNEIDER,A.L. DECISION MAKING IN HAZARDOUS MATERIALS TRANSPORTATION $ US COAST GUARD ACAD NEW LONDON CONN J HAZARD MATER 4 (2) P. 129-143 1980

0497 MARTINSEN,W.E., JOHNSON,D.W., WELKER,J.R. FIRE SAFETY ON LPG IN MARINE TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 216P. 1980

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1980

0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF CORDELLE GEORGIA EXPLOSION AND FIRE CORDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

0582 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1979 $ PB-81-108615 122P. 1980

0583 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1980 $ PB-81-156978 52P. 1980

0584 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. SAFETY EFFECTIVENESS EVALUATION FEDERAL AND STATE ENFORCEMENT EFFORTS IN HAZARDOUS MATERIALS TRANSPORTATION BY TRUCK $ PB-81-180101 113P. 1981

TRANSPORTATION

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND EI-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

0587 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, BARGE PANAMA-CITY GOOD HOPE LOUISIANA AUGUST 30 1979 $ PB-80-200850 45P. 1980 D.C. MARINE ACCIDENT REPORT: COLLISION OF PERUVIAN FREIGHTER M/V INCA-TUPAC-YUPANGUI AND US BUYANE

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT THE PIPELINES OF PUERTO-RICO INC PETROLEUM PRODUCTS PIPELINE RUPTURE AND FIRE BAYAMON PUERTO-RICO JANUARY 30 1980 $ PB-81-204851 69P. 1980

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

0591 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSION 215 THIRD STREET SE WASHINGTON, D.C. OCTOBER 30 1979 $ PB-80-213457 33P. 1980

0592 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSIONS AT ANNANDALE VIRGINIA MARCH 24 1972 $ PB-214-328/7 42P. 1972

0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

0595 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT PENNSYLVANIA GAS AND WATER COMPANY NATURAL-GAS EXPLOSIONS WILLIAMSPORT PENNSYLVANIA JANUARY 25 1977 $ PB-277-052/7ST 26P. 1977

TRANSPORTATION
0596 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA NATURAL-GAS: MARINE TRANSPORTATION 1964 OCTOBER 1981 (CITATIONS FROM THE NTIS DATA BASE) $ PB-82-801648 169P. 1981

0776 DEPARTMENT OF TRANSPORTATION WASHINGTON, D.C. ANNUAL REPORT OF PIPELINE SAFETY 1978 $ PB-81-154874 95P. 1978

0777 DEPARTMENT OF TRANSPORTATION WASHINGTON, D.C. ANNUAL REPORT ON PIPELINE SAFETY 1979 $ PB-81-154882 59P. 1979

0793 VERNBERG,E.J., ALTEKRUSE,E.B., BUTLER,S.O. PROCEEDINGS OF CONFERENCE ON OIL TANKER TRANSPORTATION: AN INTERDISCIPLINARY ANALYSIS OF NATIONAL AND INTERNATIONAL POLI $ SOUTH CAROLINA UNIV COLUMBIA AD-A080-085/4 250P. 1980

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.K., KUSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MUSSMURAIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

TRANSPORTED
0220 DIDENKO,V.S. RHEOLOGICAL PROPERTIES OF WATER-OIL EMULSIONS TRANSPORTED IN PIPELINES $ NEFTYANOE KHOZYAISTVO (12) P. 53-56 1980

TRAPPED
0772 TUPHAM,D.R. DISPOSITION OF GAS-OIL MIXTURES TRAPPED UNDER ICE $ INST OF OCEAN SCI SIDNEY BC CAN J PHYS 58 (8) P. 1183-1190 1980

TRELAN
0430 LAYNE,M.D. TEST AND EVALUATION OF THE TRELAN INCINERATOR $ COAST GUARD RESEARCH AND DEVELOPMENT CENTER GROTON CT AD-A099-527/4 112P. 1981

TRELII
0275 FRANKLIN,A.L. TRELII: A COMPUTER PROGRAM FOR TRANSPORTATION RISK ASSESSMENT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 89P. 1980

TREES
0638 PAUL,R., DELCARTE,E., TILMAN,J., GODEFROID,C. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF STREET TREES $ DEP BIOL VEG THEOR APPL FAC SCI AGRON ETAT GEMBLOUX BELG TRIB CEBEDEAU 33 (445) P. 547-53 1980

TRENDS
0243 DEPARTMENT OF ENERGY WASHINGTON, D.C. ENVIRONMENTAL TRENDS TO THE YEAR 2000 $ 23P. 1981

TRENTACOSTE,N.P
0780 TRENTACOSTE,N.P., BIERMAN,G.R., CUNNINGHAM,J. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ SCIENCE APPLICATIONS INC MCLEAN VA PB-80-174287 227P. 1980

1111 TRENTACOSTE,N.P., BIERMAN,G.R. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174287 1980

TRIAL
1064 INTERA ENVIRONMENTAL CONSULTANTS LIMITED REMOTE-SENSING ANALYSIS OF THE OIL SPILL DISPERSANT SEA TRIAL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-40 OTTAWA ONTARIO 1982

1090 LEA,B.N. OCEANOGRAPHIC STUDIES IN SUPPORT OF AN OFFSHORE DISPERSANT TRIAL $ DEBROCKY SEATECH (NFLD) LTD NEWFOUNDLAND CANADA 1982

1091 GILL,S.D. THE SUFFIELD FIELD TRIAL OF AERIALLY APPLIED OIL SPILL DISPERSANTS $ PETROLEUM ASSOCIATION FOR CONSERVATION OF THE CANADIAN ENVIRONMENT OTTAWA CANADA 1981

TRIANGLE
0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

TRINECTES-MACULATUS
0983 SOLANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND TRINECTES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MS JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

TRIVELPIECE,W
0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

TRONOV,V.P

0685 KUZENTSVAIG,A.K., TRONOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

TROPHIC

0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P. HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

TROPICAL

0380 JACQUES,J.M., RENSON,M., DELMOTTE,A. THE DEVELOPMENT OF A MODEL FOR BIOLOGICAL CONTROL OF SHALLOW TROPICAL WATERS SUBJECTED TO PETROLEUM THREATS $ NAECON NV DRONGEN BELGIUM IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 727-735 1981

0749 STONER,R.R. TROPICAL OIL SPILL CONTINGENCY PLANNING REQUIREMENTS AND APPLICATIONS $ NUS CORP ROCKVILLE MD IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 663-677 1981

0838 ATWOOD,D.K., FERGUSON,R.L. AN EXAMPLE STUDY OF THE WEATHERING OF SPILLED PETROLEUM IN A TROPICAL MARINE ENVIRONMENT IXTOC-1 $ NOAA ATLANT OCEANOG AND METEOROL LABS RICKENBACKER CAUSEWAY MIAMI FL BULLETIN OF MARINE SCIENCE 32 (1) P. 1-13 1982

TRUDEL,K

1034 MACKAY,D., PATERSON,S., TRUDEL,K. A MATHEMATICAL MODEL OF OIL SPILL BEHAVIOUR $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-7 OTTAWA ONTARIO 1980

TSAHALIS,D.T

0778 TSAHALIS,D.T. CONTINGENCY PLANNING FOR OIL SPILLS: RIVERSPILL A RIVER SIMULATION MODEL $ SHELL DEV CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 27-36 1979

TSANG,G

0290 TSANG,G., RECOVERY OF OIL SPILLED UNDER RIVER ICE COVER $ NATL WATER RES INST BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 387-396 1979

1038 TSANG,G. THEORETICAL STUDY FOR THE SCALE MODELLING OF SUBSEA CONTAINMENT DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-11 OTTAWA ONTARIO 1980

1122 TSANG,G. THEORETICAL STUDY FOR GUIDANCE OF MODEL STUDY OF SUBSEA BLOWOUT CONTAINMENT DEVICE $ ENVIRONMENTAL EMERGENCY BRANCH OTTAWA ONTARIO NORTH-TECH 1980

TSAU,C.H

0825 YEN,B.C., TSAU,C.H., HINKLE,R.D. SOIL-PIPE INTERACTION OF HEATED OIL PIPELINES $ CALIF STATE UNIV LONG BEACH CA TRANSPORTATION ENGINEERING JOURNAL OF ASCE 107 (1) P. 1-14 1981

TREES
0638 PAUL,R., DELCARTE,E., TILMAN,J., GODEFROID,C. EFFECT OF NATURAL-GAS LEAKS ON MINERAL NUTRITION OF STREET TREES $ DEP BIOL VEG THEOR APPL FAC SCI AGRON ETAT GEMBLOUX BELG TRIB CEBEDEAU 33 (445) P. 547-53 1980

TRENDS
0243 DEPARTMENT OF ENERGY WASHINGTON, D.C. ENVIRONMENTAL TRENDS TO THE YEAR 2000 $ 23P. 1981

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1111 TRENTACOSTE,N.P., BIERMAN,G.R. SPILL PREVENTION CONTROL AND COUNTERMEASURE PRACTICES AT SMALL PETROLEUM FACILITIES $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174287 1980

TRIAL
1064 INTERA ENVIRONMENTAL CONSULTANTS LIMITED REMOTE-SENSING ANALYSIS OF THE OIL SPILL DISPERSANT SEA TRIAL $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-40 OTTAWA ONTARIO 1982

1090 LEA,B.N. OCEANOGRAPHIC STUDIES IN SUPPORT OF AN OFFSHORE DISPERSANT TRIAL $ DEBROCKY SEATECH (NFLD) LTD NEWFOUNDLAND CANADA 1982

1091 GILL,S.D. THE SUFFIELD FIELD TRIAL OF AERIALLY APPLIED OIL SPILL DISPERSANTS $ PETROLEUM ASSOCIATION FOR CONSERVATION OF THE CANADIAN ENVIRONMENT OTTAWA CANADA 1981

TRIANGLE
0883 ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PARK NC BULK GASOLINE TERMINALS BACKGROUND INFORMATION FOR PROPOSED STANDARDS (DRAFT ENVIRONMENTAL IMPACT STATEMENT) $ PB82-152869 323P. 1980

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0983 SOLANGI,M.A., OVERSTREET,R.M. HISTOPATHOLOGICAL CHANGES IN 2 ESTUARINE FISHES MENIDIA-BERYLLINA (COPE) AND TRINECTES-MACULATUS (BLOCH AND SCHNEIDER) EXPOSED TO CRUDE-OIL AND ITS WATER SOLUBLE FRACTIONS $ GULF COAST RES LAB OCEAN SPRINGS MS JOURNAL OF FISH DISEASES 5 (1) P. 13-35 1982

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0865 BUTLER,R.G., TRIVELPIECE,W., MILLER,D.S. THE EFFECTS OF OIL DISPERSANT AND EMULSIONS ON THE SURVIVAL AND BEHAVIOR OF AN ESTUARINE TELEOST AND AN INTER-TIDAL AMPHIPOD $ MT DESERT ISL BIOL LAB SALISBURY COVE ME ENVIRONMENTAL RESEARCH 27 (2) P. 266-276 1982

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0685 RUZENTSVAIG,A.K., TRONOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

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0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P. HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

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0380 JACQUES,J.M., RENSON,M., DELMOTTE,A. THE DEVELOPMENT OF A MODEL FOR BIOLOGICAL CONTROL OF SHALLOW TROPICAL WATERS SUBJECTED TO PETROLEUM THREATS $ NAECON NV DRONGEN BELGIUM IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 727-735 1981

0749 STONER,R.R. TROPICAL OIL SPILL CONTINGENCY PLANNING REQUIREMENTS AND APPLICATIONS $ NUS CORP ROCKVILLE MD IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 663-677 1981

0838 ATWOOD,D.K., FERGUSON,R.L. AN EXAMPLE STUDY OF THE WEATHERING OF SPILLED PETROLEUM IN A TROPICAL MARINE ENVIRONMENT IXTOC-1 $ NOAA ATLANT OCEANOG AND METEOROL LABS RICKENBACKER CAUSEWAY MIAMI FL BULLETIN OF MARINE SCIENCE 32 (1) P. 1-13 1982

TRUDEL,K
1034 MACKAY,D., PATERSON,S., TRUDEL,K. A MATHEMATICAL MODEL OF OIL SPILL BEHAVIOUR $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-7 OTTAWA ONTARIO 1980

TSAHALIS,D.T
0778 TSAHALIS,D.T. CONTINGENCY PLANNING FOR OIL SPILLS: RIVERSPILL A RIVER SIMULATION MODEL $ SHELL DEV CO HOUSTON TEX PROC - OIL SPILL CONF LOS ANGELES CALIF P. 27-36 1979

TSANG,G
0290 TSANG,G., RECOVERY OF OIL SPILLED UNDER RIVER ICE COVER $ NATL WATER RES INST BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 387-396 1979

1038 TSANG,G. THEORETICAL STUDY FOR THE SCALE MODELLING OF SUBSEA CONTAINMENT DEVICES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-11 OTTAWA ONTARIO 1980

1122 TSANG,G. THEORETICAL STUDY FOR GUIDANCE OF MODEL STUDY OF SUBSEA BLOWOUT CONTAINMENT DEVICE $ ENVIRONMENTAL EMERGENCY BRANCH OTTAWA ONTARIO NORTH-TECH 1980

TSAU,C.H
0825 YEN,B.C., TSAU,C.H., HINKLE,R.D. SOIL-PIPE INTERACTION OF HEATED OIL PIPELINES $ CALIF STATE UNIV LONG BEACH CA TRANSPORTATION ENGINEERING JOURNAL OF ASCE 107 (1) P. 1-14 1981

TSCA
0631 PAGE,T. A FRAMEWORK FOR UNREASONABLE RISK IN THE TOXIC SUBSTANCES CONTROL ACT (TSCA) $ CALTECH ENVIRONM QUAL LAB PASADENA CA ANNALS OF THE NEW YORK ACADEMY OF SCIENCES 363 P. 145-166 1981

TSESIS
0383 JOHANSSON,S., LARSSON,U., BOEHM,P. THE TSESIS OIL SPILL IMPACT ON THE PELAGIC ECOSYSTEM $ ASKO LAB INST MARINE RES UNIV STOCKHOLM SWED MAR POLLUT BULL 11 (0) P. 284-293 1980

0454 LINDEN,C., ELMGREN,R., BOEHM,P. TSESIS OIL SPILL: ITS IMPACT ON THE COASTAL ECOSYSTEM OF THE BALTIC SEA $ SWED WATER AND AIR POLLUT RES INST NYKOPING AMBIO 8 (6) P. 244-253 1979

0606 NUTINI,M. CONTENTS AND LONG TIME EFFECTS IN THE LITTORAL ZONE AFTER AN OIL SPILL A TWO YEAR STUDY OF THE TSESIS OIL SPILL $ 16P. 1980

0849 BOEHM,P.D., BARAK,J.E., FIEST,D.L., ELSKUS,A.A. A CHEMICAL INVESTIGATION OF THE TRANSPORT AND FATE OF PETROLEUM HYDROCARBONS IN LITTORAL AND BENTHIC ENVIRONMENTS THE TSESIS OIL SPILL $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA MARINE ENVIRONMENTAL RESEARCH 6 (3) P. 157-188 1982

1105 KINEMAN,J., ELMGREN,R., HANSSON,S. THE TSESIS OIL SPILL $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER COLORADO 1980

TUBULAR
0416 KUTONY,O., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES COUNC OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

TUCKER,L.K
0773 TOPINKA,J.A., TUCKER,L.R. LONG-TERM OIL CONTAMINATION OF FUCOID-MACROALGAE FOLLOWING THE AMOCO-CADIZ OIL SPILL $ BIGELOW LAB OCEAN SCI MCKOWN POINT/WEST BOOTHBAY HARBOR ME AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 393-403 1979

TUCKER,W.A
0028 ARAVAMUDAN,K., RAJ,P.K., NEWMAN,E., TUCKER,W.A. BREAK-UP OF OIL ON ROUGH SEAS SIMPLIFIED MODELS AND STEP-BY-STEP CALCULATIONS $ COAST GUARD WASHINGTON, D.C. AD-A084-240/1 210P. 1979

TUNDRA
0031 ATLAS,R.M., SEXSTONE,A., GUSTIN,P., MILLER,U., LINKINS,P., EVERETT,K. BIODEGRADATION OF CRUDE-OIL BY TUNDRA SOIL MICROORGANISMS $ VIRGINIA POLYTECH INST AND STATE UNIV DEPT BIOL BLACKSBURG VA IN: OXLEY,T.A., BECKER,G., ALLSOPP,D. BIODETERIORATION P. 21-28 1980

TUNDRA
0054 BARSDATE,R.J., MILLER,M.C., ALEXANDER,U., VESTAL,J.R., HOBBIE,J.E. OIL SPILL EFFECTS (ON TUNDRA POND LIMNOLOGY) $ INST MAR SCI UNIV ALASKA FAIRBANKS AK US/IBP SYNTH SER 13 (LIMNOL TUNDRA PONDS: BARROW ALASKA) P. 388-406, 457-91 1980

TURBULENCE
0181 COAST GUARD WASHINGTON, D.C. THE WINDWAVE AND TURBULENCE OBSERVATION PROGRAM (WAVTOP) THE MEASUREMENT OF PARAMETERS CONTROLLING DOWNWARD MIXING OF OIL FROM THE SEA SURFACE $ AD-A083-014/1 103P. 1979

TURNER,M.J
0781 TURNER,M.J. SAFETY EVALUATION OF CROSS COUNTRY PIPELINES $ HEALTH AND SAF EXEC LONDON ENGL 7TH INT SYMP INST CHEM ENG SYMP SER (58) P. 245-256 1980

TVEIT,O.J
0779 TVEIT,O.J., MYKLATUN,B., BOHLER,T., VESTERHAUG,O. RISK ANALYSIS OF A TYPICAL NORTH SEA PETROLEUM PRODUCTION PLATFORM $ DET NOR VERITAS NORW OFFSHORE TECHNOL CONF 12TH ANNUAL PROC 4 P. 501-508 1980

TWARDUS,E.M
1032 TWARDUS,E.M. A STUDY TO EVALUATE THE COMBUSTIBILITY AND OTHER PHYSICAL AND CHEMICAL PROPERTIES OF AGED OILS AND EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-5 OTTAWA ONTARIO 1980

TWEDELL,A.M
0156 BYROADE,J.D., TWEDELL,A.M., LEBOFF,J.P. HANDBOOK FOR OIL SPILL PROTECTION AND CLEANUP PRIORITIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-183394 145P. 1981

ULTRASONIC
0575 NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA ULTRASONIC LIQUID IN-LINE SENSORS: FOUR DIFFERENT CONFIGURATIONS ARE EVALUATED TO DETERMINE THE BEST CANDIDATES FOR DETECTING THE BACKFLOW OF LIQUIDS $ PB-80-978520 1P.

ULTRASTRUCTURE
0609 NUWAYHID,M.A., DAVIES,P.S., ELDER,H.Y. CHANGES IN THE ULTRASTRUCTURE OF THE GILL EPITHELIUM OF PATELLA-VULGATA AFTER EXPOSURE TO NORTH-SEA CRUDE-OIL AND DISPERSANT $ UNIV GLASGOW DEPT ZOOL GLASGOW SCOTLAND JOURNAL OF THE MARINE BIOLOGICAL ASSOCIATION OF THE UNITED KINGDOM 60 (2) P. 439-448 1980

ULTRAVIOLET-ABSORPTION-SPECTROMETRY
0771 TITTARELLI,P., BALDASSARRI,L.T., ZERLIA,T. IDENTIFICATION OF SPILLED CRUDE-OILS BY VAPORPHASE ULTRAVIOLET-ABSORPTION-SPECTROMETRY $ STAZ SPERIMENTALE COMBUSTIBILI,VIALE A DE GASPERI SAN DONATO MILANE ITALY ANALYTICAL CHEMISTRY 53 (11) P. 1706-1708 1981

UNCONFINED
0269 FLORIDA UNIV GAINESVILLE DEPT OF ZOOLOGY THE DISSEMINATION AND COMBUSTION OF UNCONFINED LIQUEFIED-NATURAL-GAS CLOUDS $ AD-A089-315/6 59P. 1979

UNDER-WATER
1126 FANNELOP,T.K., SJOEN,K. HYDRODYNAMICS OF UNDER-WATER BLOWOUTS $ AMERICAN INSTITUTE OF AERONAUTICS AND ASTRONAUTICS NEW YORK NY 1980

UNDERGROUND
0346 HENRY,M.F. UNDERGROUND LEAKAGE OF HYDROCARBONS AN OVERVIEW OF A POTENTIAL FIRE PROBLEM $ FIRE J (BOSTON) 75 (2) P. 91-94 1981

0852 BUGDANOV,Y.M., BORISOV,V.V., GROKHOTOV,V.A., MAZUROV,V.A. PREVENTION OF ACCIDENTAL BLOW-OUTS OF A FUEL IN UNDERGROUND RESERVOIRS $ VSES NAUCHNO-ISSLED INST ISPOL'Z GAZA NAR KHOZ MOSCOW USSR (SU) TRANSP KHRANENIE NEFTI NEFTEPROD (2) P. 20-4 1982

1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204082 118P. 1979

1147 ANONYMOUS UNDERGROUND SPILL CLEANUP MANUAL $ AMERICAN PETROLEUM INSTITUTE WASHINGTON,D.C. 1983

UNDERSTANDING
0601 NICHOLS,L.D. UNDERSTANDING AND IMPROVING SORBENTS FOR FLOATING OIL $ NATIONAL SCIENCE FOUNDATION WASHINGTON, D.C. PB-81-178097 48P. 1974

UNITED-KINGDOM
0622 UNEILL,T. OIL SPILL CONTINGENCY PLANS AND POLICIES IN NORWAY AND THE UNITED-KINGDOM $ YALE UNIV SCH FORESTRY AND ENVIRONM STUDIES NEW HAVEN CT COASTAL ZONE MANAGEMENT JOURNAL 8 (4) P. 289-317 1980

UNITED-STATES
0298 GETTER,C.D., HAYES,M.O. THE COMPARATIVE SENSITIVITIES OF 5 UNITED-STATES ESTUARIES TO OIL AND HAZARDOUS MATERIALS SPILLS $ RES AND PLANNING INST COLUMBIA SC ESTUARIES 4 (3) 244P. 1981

UNTERBERG,W
0689 UNTERBERG,W., MOOREHEAD,R.M. GUIDE FOR SPILL PREVENTION CONTROL AND COUNTERMEASURE INSPECTORS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-115296 119P. 1981

UNTREATED
0242 DEPARTMENT OF ENERGY WASHINGTON, D.C. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL REPORT $ 1042P. 1980

UNTREATED

0465 LITTLE,D., BAKER,J.M., ABBISS,T.P., RUWLAND,S.J., TIBBETTS,P.J.C. THE FATE AND EFFECTS OF DISPERSANT TREATED COMPARED WITH UNTREATED CRUDE-OIL WITH PARTICULAR REFERENCE TO SHELTERED INTERTIDAL SEDIMENTS $ FIELD STUD COUNC OIL POLLUT RES UNIT ORIELTON FIELD CENT PEMBROKE ENGL PUBL - UNIV TORONTO INST ENVIRON STUD P. 117-51 1980

0817 WILSON,M.P. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 1048P. 1981

1084 WILSON,M.P. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL TECHNICAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 1981

UPDATED

0250 EYNON,S.B. LINE LEAK-DETECTION METHODS UPDATED $ HEATH CONSULTANTS INC STOUGHTON MA OIL GAS J 78 (37) P. 205-6 1980

UPTAKE

0315 GRIFFITHS,R.P., MCNAMARA,T.M., CALDWELL,B.A., MORITA,R.Y. FIELD OBSERVATIONS ON THE ACUTE EFFECT OF CRUDE-OIL ON GLUCOSE AND GLUTAMATE UPTAKE IN SAMPLES COLLECTED FROM ARCTIC AND SUB-ARCTIC WATERS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 41 (6) P. 1400-1406 1981

0316 GRIFFITHS,R.P., CALDWELL,B.A., BROICH,W.A., MORITA,R.Y. LONG-TERM EFFECTS OF CRUDE-OIL ON UPTAKE AND RESPIRATION OF GLUCOSE AND GLUTAMATE IN ARCTIC AND SUB-ARCTIC MARINE-SEDIMENTS $ OREGON STATE UNIV DEPT MICROBIOL CORVALLIS OR APPLIED AND ENVIRONMENTAL MICROBIOLOGY 42 (5) P. 792-801 1981

0485 MALINS,D.C., HODGINS,H.O. PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 15 (11) 1272P. 1981

0684 PAYNE,J.F. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ RES AND RESOURCE SERV ST JOHNS NEWFOUNDLAND CANADA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 370-372 1982

0926 MALINS,D.C., HODGINS,H.O. CRITIQUE OF PETROLEUM AND MARINE FISHES A REVIEW OF UPTAKE DISPOSITION AND EFFECTS $ NW AND ALASKA FISHERIES CTR DIV ENVIRONM CONSERVAT SEATTLE WA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (6) P. 372-373 1982

URBAN,R.W

0381 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

URBAN,R.W
0450 LICHTE,H.W., BRESLIN,M.K., SMITH,G.F., GRAHAM,D.J., URBAN,R.W. PERFORMANCE TESTING OF FOUR SKIMMING SYSTEMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101353 92P. 1981

1118 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS THREE OIL SKIMMERS AND A WATER JET HERDER $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-174402 1980

1131 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT EVALUATION TESTS $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

USNS
0319 GROSE,P.L., MATTSON,J.S., PETERSEN,H. USNS POTOMAC OIL SPILL MELVILLE-BAY GREENLAND 5 AUGUST 1977 A JOINT REPORT ON SCIENTIFIC STUDIES AND IMPACT ASSESSMENT BY THE NOAA-USCG SPILLED OIL RESEARCH TEAM AND THE GREENLAND FISHERIES INVESTIGATIONS MINISTRY FOR GREENLAND $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-173727 139P. 1979

0921 LICHTE,H.W., BORST,M., SMITH,G.F. TESTS OF THE SHELL SOCK SKIMMER ABOARD USNS POWHATAN $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OH PB82-220849 92P. 1981

UTHE,J.F
0725 SIROTA,G.R., UTHE,J.F., COOKE,M. (ED), DENNIS,A.J. (ED) POLYNUCLEAR-AROMATIC-HYDROCARBON CONTAMINATION IN MARINE SHELL $ HALIFAX LAB DEP FISH OCEANS HALIFAX NS CAN CHEM ANAL AND BIOL FATE: POLYNUCL AROMAT HYDROCARBONS INT SYMP 5TH P. 329-41 1981

UTILITY
1051 PURVES,W.F. A CATALOGUE OF OIL SPILL UTILITY PUMPS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-24 OTTAWA ONTARIO 1981

UV
0356 HUFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

VACELET,E
0648 PLANTE-CUNY,M.R., LE CAMPION-ALSUMARD,T., VACELET,E. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART II MICROPHYTE POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO-CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 429-42 1981

VACELET,E

0782 VACELET,E., LE CAMPION-ALSUMARD,T., PLANTE-CUNY,M.R. EFFECT OF AMOCO-CADIZ OIL SPILL ON BACTERIAL AND MICROPHYTE POPULATIONS OF ILE-GRANDE (FRANCE) MARINE MARSH PART I BACTERIAL POPULATIONS $ CENT OCEANOGR STN MAR ENDOUME MARSEILLE FR AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 415-28 1979

VALDEZ

0247 ENVIRONMENTAL PROTECTION AGENCY SEATTLE WA ALASKA PETROCHEMICAL COMPANY REFINERY AND PETROCHEMICAL FACILITY VALDEZ ALASKA $ PB-81-117038 349P. 1980

0402 KEITH,V.F. REAL TIME SIMULATION OF OIL TANKER OPERATIONS IN VALDEZ ALASKA $ ECO INC ANNAPOLIS MD IN: SOC COMP SIMULAT PROCEEDINGS OF THE 1980 SUMMER COMPUTER SIMULATION CONFERENCE P. 405-410 1980

VANBLARICOM,G.R

0992 VANBLARICOM,G.R., JAMESON,R.J. LUMBER SPILL IN CENTRAL CALIFORNIA WATERS IMPLICATIONS FOR OIL SPILLS AND SEA OTTERS $ US FISH AND WILDLIFE SERV SAN SIMEON CA SCIENCE 215 (4539) P. 1503-1505 1982

VANDECASTEELE,J.P

0049 BALLERINI,D., VANDECASTEELE,J.P. BIODEGRADATION OF CRUDE-OIL IN A MARINE-ENVIRONMENT GENERAL METHODOLOGY $ INST FRANCAIS PETR F-92502 RUEIL MALMAISON FRANCE ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 12P. 1980

VANDERHORST,J.R

0090 BLAYLOCK,J.W., VANDERHORST,J.R., ANDERSON,J.W. ROLE OF TISSUE ANALYSIS FOR PETROLEUM HYDROCARBONS IN MARINE POLLUTION RESEARCH $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 15P. 1979

0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

0791 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P. RESEARCH TO INVESTIGATE EFFECTS FROM PRUDHOE-BAY CRUDE-OIL ON INTERTIDAL INFAUNA OF THE STRAIT OF JUAN-DE-FUCA FIRST ANNUAL REPORT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-80-160955 46P. 1979

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

VANDERKOOY,N
0291 GEE,T., VANDERKOOY,N. DEVELOPMENT OF A NOVEL ICE OIL BOOM FOR FLOWING WATERS $ ENVIRON CAN BURLINGTON ONT CANADA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 377-385 1979

VANDERMEULEN,J.H
0745 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RECOMMENDATIONS FROM A RESEARCH APPRAISAL $ DEP ZOOL UNIV GUELPH GUELPH ONT MAR POLLUT BULL 12 (2) P. 45-46 1981

0785 VANDERMEULEN,J.H., HANRAHAN,J., HEMSWORTH,T. RESPIRATORY CHANGES AND STABILITY OF HEMOCYANIN-O2 BINDING-CAPACITY IN THE CRAB CANCER-IRRORATUS EXPOSED TO KUWAIT CRUDE-OIL IN SEA-WATER $ FISHERIES AND ENVIRON CANADA BEDFORD INST OCEANOG MARINE ECOL LAB DARTMOUTH MARINE ENVIRONMENTAL RESEARCH 3 (3) P. 161-170 1980

0786 VANDERMEULEN,J.H., LONG,B.F.N., AHERN,T.P. BIOAVAILABILITY OF STRANDED AMOCO-CADIZ OIL AS A FUNCTION OF ENVIRONMENTAL SELF-CLEANING: APRIL 1978-JANUARY 1979 $ MAR ECOL LAB BEDFORD INST OCEANOGR DARTMOUTH NS AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 585-97 1979

1007 SAMSON,A.L., VANDERMEULEN,J.H., WELLS,P.G., MOYSE,C. A SELECTED BIBLIOGRAPHY ON THE FATE OF OIL POLLUTION RELEVANT TO THE CANADIAN MARINE ENVIRONMENT $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-5 OTTAWA ONTARIO 1980

1016 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-2 OTTAWA ONTARIO 1982

1028 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS - RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-1 OTTAWA ONTARIO 1980

VANPRAET,M
0626 DUDOT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

VAPOR
0084 BJORKLUND,R.A., KUSHIDA,R.O. FLASHBACK FLAME-ARRESTER DEVICES FOR FUEL CARGO TANK VAPOR VENTS $ COAST GUARD WASHINGTON, D.C. AD-A100-040/5 127P. 1981

0091 BOBRA,A., MACKAY,D., SHIU,W.Y. DISTRIBUTION OF HYDROCARBONS AMONG OIL WATER AND VAPOR PHASES DURING OIL DISPERSANT TOXICITY TESTS $ UNIV OF TORONTO ONT BULL ENVIRON CONTAM TOXICOL 23 (4-5) P. 558-565 1979

VAPUR
0171 CHANG,R.K., BENNER,R.E. LASER-RAMAN POINT MONITURING OF METHANE VAPOR IN THE LNG STORAGE FIELD $ DEP ENG APPL SCI YALE UNIV NEW HAVEN CT PB-80-205347 39P. 1979

0228 DRAKE,E.M., WESSON,H.R. REVIEW OF LNG SPILL VAPUR DISPERSION AND FIRE HAZARD ESTIMATION AND CONTROL METHUDS $ ARTHUR D. LITTLE INC CAMBRIDGE MASS AM GAS ASSOC JPER SECT PROC 17P. 1976

0513 MERONEY,R.N., NEFF,D.E., KOTHARI,K.N. BEHAVIOR OF LNG (LIQUEFIED-NATURAL-GAS) VAPOR CLOUDS: TESTS TO DEFINE THE SIZE SHAPE AND STRUCTURE OF LNG VAPUR CLOUDS $ GAS RESEARCH INST CHICAGO IL PB-81-201907 93P. 1980

0635 PARNAROUSKIS,M.C., TAYLOR,M.W., LIND,C.D., RAJ,P.P.K., CECE,J.M. VAPOR CLOUD EXPLOSION STUDY $ US COAST GUARD WASHINGTON, D.C. CONGR INT SUR LE GAZ NAT LIQUEFIE 6TH 2 16P. 1980

0658 RAJ,P.P.K., MOUSSA,A.N., ARAVAMUDAN,K. EXPERIMENTS INVOLVING POOL AND VAPOR FIRES FROM SPILLS OF LIQUEFIED-NATURAL-GAS ON WATER $ COAST GUARD WASHINGTON, D.C. AD-A077-073/5 258P. 1979

VAPURPHASE
0771 TITTARELLI,P., BALDASSARRI,L.T., ZERLIA,T. IDENTIFICATION OF SPILLED CRUDE-OILS BY VAPORPHASE ULTRAVIOLET-ABSURPTION-SPECTROMETRY $ STAZ SPERIMENTALE CUMBUSTIBILI,VIALE A DE GASPERI SAN DUNATO MILANE ITALY ANALYTICAL CHEMISTRY 53 (11) P. 1706-1708 1981

VARGO,G.A
0882 ELMGREN,R., VARGO,G.A., GRASSLE,J.F., GRASSLE,J.P. HEINLE,D.R. TROPHIC INTERACTIONS IN EXPERIMENTAL MARINE ECOSYSTEMS PERTURBED BY OIL $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT,RI PB82-181959 24P. 1980

VASHCHENKO,M.A
0788 VASHCHENKO,M.A. EFFECTS OF OIL POLLUTION ON THE DEVELOPMENT OF SEX CELLS IN SEA-URCHINS $ ACAD SCI USSR HELGOLANDER MEERESUNTERSUCHUNGEN 33 (1-4) P. 297-30 1980

0789 VASHCHENKO,M.A. THE EFFECT OF WATER-SOLUBLE HYDROCARBON FRACTIONS OF DIESEL-FUEL ON THE DEVELOPMENT OF GAMETES AND QUALITY OF THE OFFSPRING IN THE SEA-URCHIN STRONGYLOCENTROTUS-NUDUS $ ACAD SCI USSR BIULOGIYA MORYA-MARINE BIOLOGY (4) 68P. 1980

VEGETATION
0617 ULGEIRSUN,E.R., MARTIN,R.B. ECOLOGICAL INVESTIGATIONS: VEGETATION STUDIES PRELIMINARY FINDINGS $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 56P. 1978

VENEZUELAN
0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

VENKATESH,S

0792 VENKATESH,S., SAHOTA,H.S., RIZKALLA,A.S. PREDICTION OF THE MOTION OF OIL SPILLS IN CANADIAN ARCTIC WATERS $ ATMOS ENVIRON SERV DOWNSVIEW ONT CAN PROC - OIL SPILL LOS ANGELES CALIF P. 677-683 1979

VENIS

0084 BJORKLUND,R.A., KUSHIDA,R.O. FLASHBACK FLAME-ARRESTER DEVICES FOR FUEL CARGO TANK VAPOR VENTS $ COAST GUARD WASHINGTON, D.C. AD-A100-040/5 127P. 1981

VERHAGEN,L.H.J.M

0794 VERHAGEN,L.H.J.M. ERGONOMIC ASPECTS OF CENTRALIZED SUPERVISION AND CONTROL OF OIL MOVEMENT AND STORAGE $ TWENTE UNIV TECHNOL WORKING GROUP ERGON ENSCHEDE NETHERLANDS IN: AUNE,A.B., VLIESTSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS P. 57-61 1980

VERLINSKAYA,R.M

0599 NESTERUVA,R.P., ANUFRIEVA,N.M., GORITSKII,A.B., SHUTER,L.M., VERLINSKAYA,R.M. REMOVAL OF OIL POLLUTANTS FROM WATER BODIES BY MEANS OF HYDROPHOBIC SORBENTS $ WATER RESOUR 7 (4) P. 375-379 1980

VERNBERG,F.J

0793 VERNBERG,F.J., ALTEKRUSE,E.B., BUTLER,S.D. PROCEEDINGS OF CONFERENCE ON OIL TANKER TRANSPORTATION: AN INTERDISCIPLINARY ANALYSIS OF NATIONAL AND INTERNATIONAL POLI $ SOUTH CAROLINA UNIV COLUMBIA AD-A080-085/4 250P. 1980

VERNBERG,F.J

0436 LEE,W.Y., NICOL,J.A.C., VERNBERG,F.J. (ED), CALABRESE,A. (ED), THURBERG,F.P. (ED) A STUDY OF THE RECOVERY OF A MARINE ISOPOD (SPHAEROMA-QUADRIDENTATUM) FROM PETROLEUM-INDUCED SENSITIVITY $ MAR SCI INST UNIV TEXAS PORT ARANSAS TX BIOL MONIT MAR POLLUT (PROC SYMP POLLUT PHYSIOL MAR ORG) P. 467-82 1979

VERRIER,T

1098 WATERS,W.G., HEAVER,T.D., VERRIER,T. OIL POLLUTION FROM TANKER OPERATIONS -- CAUSES COSTS CONTROLS $ CENTRE FOR TRANSPORTATION STUDIES VANCOUVER CANADA 1980

VERTICILLIUM-ECANII

0748 STOERMER,F.C. A NEW HYDROCARBON DEGRADATION FUNGUS: VERTICILLIUM-ECANII $ NATL INST PUBLIC HEALTH OSLO NORWAY EUR J.APPL MICROBIOL BIOTECHNOL 10 (3) P. 259-60 1980

VERWEIJ,A

0993 VERWEIJ,A. POLLUTION OF THE SOIL BY AVIATION GASOLINE $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION WASHINGTON,D.C. 26P. 1979

VESSEL

0252 FASGADAIR - BP TAKES DELIVERY OF ITS INSHORE OIL RECOVERY AND POLLUTION CONTROL VESSEL AFTER CONVERSION AT CLYDEDOCK ENGINEERING GLASGOW $ NAVAL ARCHITECT (3) P. 111-113 1981

VESSEL
0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0738 SNIDER,W.D., SHEEHAN,D.F., JOHNSON,E.K. OVERVIEW OF CURRENT AND PROPOSED TANK VESSEL SAFETY AND POLLUTION PREVENTION MEASURES $ US COAST GUARD SEATTLE WASH PROC - SHIP TECHNOL AND RES (STAR) SYMP 4TH P. 93-119 1979

0750 STORCH,R.L., WENK,E. JR. VESSEL TRAFFIC SAFETY IN PUGET-SOUND $ UNIV OF WASH SEATTLE OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 181-186 1980

1010 WESTERN CANADA HYDRAULIC LABORATORIES LTD INVESTIGATION OF THE OPERATING PARAMETERS OF THE OIL SPILL CONTAINMENT AND RECOVERY (OSCAR) VESSEL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-5 OTTAWA ONTARIO 1981

VESSELS
0030 ASIF,A.M., TATTERSON,G.B. OIL WATER DISPERSION MECHANISMS IN AGITATED VESSELS $ UNIV S CAROLINA COLUMBIA SC IN: VEZIROGLU,T.N. MULTIPHASE TRANSPORT 5 VOLS FUNDAMENTALS REACTOR SAFETY APPLICATIONS P. 133-144 2932P. 1980

0161 CARD,J.C., COHEN,H.P., SPENCER,J.S., HARMON,J.P. REPORT TO THE PRESIDENT ON AN EVALUATION OF DEVICES AND TECHNIQUES TO IMPROVE MANEUVERING AND STOPPING ABILITIES OF LARGE TANK VESSELS $ COAST GUARD WASHINGTON, D.C. AD-A082-711/3 174P. 1979

VESTAL,J.R
0054 BARSDATE,R.J., MILLER,M.C., ALEXANDER,V., VESTAL,J.R., HOBBIE,J.E. OIL SPILL EFFECTS (ON TUNDRA POND LIMNOLOGY) $ INST MAR SCI UNIV ALASKA FAIRBANKS AK US/IBP SYNTH SER 13 (LIMNOL TUNDRA PONDS: BARROW ALASKA) P. 388-406, 457-91 1980

0930 MCKINLEY,V.L., FEDERLE,T.W., VESTAL,J.R. EFFECTS OF PETROLEUM HYDROCARBONS ON PLANT LITTER MICROBIOTA IN AN ARCTIC LAKE $ UNIV CINCINNATI DEPT BIOL SCI CINCINNATI OH APPLIED AND ENVIRONMENTAL MICROBIOLOGY 43 (1) P. 129-135 1982

VESTERHAUG,O
0779 TVEIT,O.J., MYKLATUN,B., BOHLER,T., VESTERHAUG,O. RISK ANALYSIS OF A TYPICAL NORTH SEA PETROLEUM PRODUCTION PLATFORM $ DET NOR VERITAS NORW OFFSHORE TECHNOL CONF 12TH ANNUAL PROC 4 P. 501-508 1980

VETTERKIND,D.W
0795 VETTERKIND,D.W. ACQUISITION AND APPLICATION OF RELIABILITY INFORMATION FOR THE PLANNING AND MAINTENANCE OF NUCLEAR POWER PLANTS $ RHEINISCH-WESTFAELISCHES ELEKTRIZITAETSWERK A.G. ESSEN GERMANY 11P. 1979

VEYRES,A
0895 GARRIGUES,P., ENALD,M., LAMOTTE,M., RIMA,J., VEYRES,A., LAPOUYADE,R., JOUSSOTDUBIEN,J. LOW-TEMPERATURE SPECTROFLUORIMETRY OF COMPLEX-MIXTURES OF PAH, APPLICATION TO THE ANALYSIS OF ISOMERIC PAH EXTRACTED FROM ENVIRONMENTAL SAMPLES (PETROLEUM MARINE SEDIMENTS) $ UNIV BORDEAUX 1 CHIM PHYS LAB A CNRS TALENCE FRANCE INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY 11 (3-4) P. 305-312 1982

VILLAUME,J.F
0796 VILLAUME,J.F., HERRE,B.H., VOYKIN,D.P. CLEANUP OF AN OIL SPILL INTO GROUND-WATER AT WILLIAMSPORT PENNSYLVANIA A CASE HISTORY $ PA POWER AND LIGHT CO ALLENTOWN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 501-505 1979

VINEGAR,A
0797 VINEGAR,A., CARSON,A.I., PEPELKO,W.E. PULMONARY FUNCTION CHANGES IN CHINESE HAMSTERS EXPOSED SIX MONTHS TO DIESEL EXHAUST $ DEP ENVIRON HEALTH UNIV CINCINNATI OHIO PROC INT SYMP PB-81-13817 P. 749-56 1980

VIRGINIA
0082 BISHOP,J.M. PROCEEDINGS OF THE WORKSHOP ON GOVERNMENT OIL SPILL MODELING HELD AT WALLOPS-ISLAND VIRGINIA ON NOVEMBER 7-9 1979 $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-190945 32P. 1980

0592 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSIONS AT ANNANDALE VIRGINIA MARCH 24 1972 $ PB-214-328/7 42P. 1972

VISCOUS
0761 TAKAHASHI,T., KITAMURA,Y., NAKADA,K. SPREADING OF OIL SLICKS ON CALM WATER SURFACES EFFECT OF THE VISCOUS DRAG OF AN OIL SLICK ON ITS SPREADING RATE $ OKAYAMA UNIV JPN INT CHEM ENG 21 (2) P. 244-250 1981

VISIBILITY
0191 COOK,R.C., MARINO,K.L., COOPER,R.B. A SIMULATOR STUDY OF DEEPWATER PORT SHIPHANDLING AND NAVIGATION PROBLEMS IN POOR VISIBILITY $ COAST GUARD WASHINGTON, D.C. AD-A100-656/8 190P. 1981

VISSER,H
0798 VISSER,H. TELEDETECTION OF THE THICKNESS OF OIL FILMS ON POLLUTED WATER BASED ON THE OIL FLUORESCENCE PROPERTIES $ TNO DELFT NETH APPL OPT 18 (11) P. 1746-1749 1979

VLCC
0821 WOLFSON,M.W. VLCC LIGHTERING OPERATIONS IN SOUTHERN CALIFORNIA $ US COAST GUARD MAR SAFETY OFF SAN DIEGO CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 119-120 1979

VLIETSTRA,J
0039 AUNE,A.B., VLIETSTRA,J. AUTOMATION FOR SAFETY IN SHIPPING AND OFFSHORE PETROLEUM OPERATIONS $ PUB: NORTH HOLLAND PUBL CO JAN VAN GALENSTRAAT AMSTERDAM NETH 441P. 1980

VOLATILE
0112 BROOKS,J.M., WIESENBURG,D.A., BURKE,R.A. JR., KENNICUTT,M.C. GASEOUS AND VOLATILE HYDROCARBON INPUTS FROM A SUBSURFACE OIL SPILL IN THE GULF OF MEXICO $ DEP OCEANOGR TEXAS A AND M UNIV COLLEGE STATION TX ENVIRON SCI TECHNOL 15 (8) P. 951-9 1981

0224 DOWTY,B.J., BROWN,J.W., STONE,F.N., LAKE,J., LASETER,J.L. GC-MS ANALYSIS OF VOLATILE ORGANICS FROM ATMOSPHERES IMPACTED BY THE AMOCO-CADIZ OIL SPILL $ CENT BIO-ORG STUD UNIV NEW ORLEANS NEW ORLEANS LA AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 13-22 1979

0672 RILEY,R.G., THOMAS,B.L., ANDERSON,J.W., BEAN,R.M. CHANGES IN THE VOLATILE HYDROCARBON CONTENT OF PRUDHOE-BAY CRUDE-OIL TREATED UNDER DIFFERENT SIMULATED WEATHERING CONDITIONS $ BATTELLE PAC NORTHWEST LAB RICHLAND WA MAR ENVIRON RES 4 (2) P. 109-19 1980

0998 WIESENBURG,D.A., BODENNEC,G., BROOKS,J.M. VOLATILE LIQUID HYDROCARBONS AROUND A PRODUCTION PLATFORM IN THE NORTHWEST GULF OF MEXICO $ TEX A AND M UNIV COLLEGE STATION USA BULL ENVIRON CONTAM TOXICOL 27 (2) P. 167-174 1981

VOLLMERS,R.R
0215 DEUTSCH,M., VOLLMERS,R.R., DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

0486 MANNING,A.R. JR., WHITE,J.R., VOLLMERS,R.R. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN US COASTAL WATERS $ US COAST GUARD PROC INT SYMP REMOTE SENSING ENVIRON 14TH SAN JOSE COSTA RICA P. 249-268 1980

VORBACH,J.E
0799 VORBACH,J.E., AHERN,J.F. INTERNATIONALIZATION OF SUPERFUND $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 17-21 1979

VOROS,I
0117 BUDAY,F., SASS,L., TOROK,G., GERGELY,Z., SZAKACS,A., VOROS,I. MICROBIOLOGICAL DEGRADATION OF OIL POLLUTION OF SOILS $ HIGH PRESSURE RES INST SZASZHALOMBATTA HUNGARY ACTA MICROBIOLOGICA ACADEMIAE SCIENTIARUM HUNGARICAE 27 (3) 258P. 1980

VOYKIN,D.P
0796 VILLAUME,J.F., HERRE,B.H., VOYKIN,D.P. CLEANUP OF AN OIL SPILL INTO GROUND-WATER AT WILLIAMSPORT PENNSYLVANIA A CASE HISTORY $ PA POWER AND LIGHT CO ALLENTOWN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 501-505 1979

VULNERABILITY
0283 GABOR,T., GRIFFITH,T.K. ASSESSMENT OF COMMUNITY VULNERABILITY TO ACUTE HAZARDOUS MATERIALS INCIDENTS $ OHIO STATE UNIV COLUMBUS J HAZARD MATER 3 (4) P. 323-333 1980

VULNERABILITY
0643 PERRY,W.W., ARTICOLA,W.P. STUDY TO MODIFY THE VULNERABILITY MODEL OF THE RISK MANAGEMENT SYSTEM $ ENVIRO CONTROL INC ROCKVILLE MD AD-A084-214/6 212P. 1980

0906 HAYES,M.O., RUBY,C.H. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 1 PHYSICAL SCIENCE STUDIES: COASTAL MORPHOLOGY OIL SPILL VULNERABILITY AND SEDIMENTOLOGY NORTHERN GULF OF ALASKA $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB82-171745 587P. 1979

VYKHRESTYUK,N.I
0827 ZAKUPRA,V.A., KUZAK,V.A., VYKHRESTYUK,N.I., TKACHENKO,O.A. SEPARATION OF PETROLEUM CUTS AND LUBE OILS WITH DETERGENT ADDITIVES BY MEANS OF 2 STAGE CONTINUOUS LIQUID-CHROMATOGRAPHY $ ALL UNION PETR REFINING AND PETROCHEM IND RES AND DESIGN INST MOSCOW CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (11-1) P. 846-850 1979

WADE,M.J
0377 JACKSON,G.F., HUME,E., WADE,M.J., KIRSCH,M. OIL CONTENT IN PRODUCED BRINE ON TEN LOUISIANA PRODUCTION PLATFORMS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-108408 495P. 1981

WADE,P.J
0710 SCOTT,B.F., NAGY,E., SHERRY,J.P., DUTKA,B.J., GLOUSCHENKO,V., WADE,P.J., SNOW,N.B. ECOLOGICAL EFFECTS OF OIL-DISPERSANT MIXTURES IN FRESH WATER $ NATL WATER RES INST BURLINGTON ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 565-571 1979

WADE,T.L
0289 GEARING,P.J., GEARING,J.N., PRUELL,R.J., WADE,T.L., QUINN,J.G. PARTITIONING OF NO-2-FUEL-OIL IN CONTROLLED ESTUARINE ECOSYSTEMS SEDIMENTS AND SUSPENDED PARTICULATE MATTER $ UNIV RHODE ISLAND GRAD SCH OCEANOG KINGSTON RI ENVIRONMENTAL SCIENCE AND TECHNOLOGY 14 (9) P. 1129-1136 1980

WAHBEH,N
0800 WAHBEH,N. DISPOSAL OF OILY WASTE FROM OIL SPILLS BY LAND FARMING $ HAZARDOUS MAT MANAGEMENT INC CASTRO VALLEY CA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 29-35 1980

WAKAMIYA,W
0931 MERCER,B.W., WAKAMIYA,W., PETTY,S.E., STRAND,J.A., MAHLUM,D.D. ASSESSMENT OF SYNFUEL SPILL CLEANUP OPTIONS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 15P. 1981

1136 WAKAMIYA,W., PETTY,S.E., BOIARSKI,A., PUTMAN,A. COMBUSTION OF OILS ON WATER AN EXPERIMENTAL PROGRAM $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 1982

WALDMAN,G.D
0994 WALDMAN,G.D., FANNELOP,T.K. SPREADS OF OIL SLICKS ON A NATURAL BODY OF WATER COMMENT $ AVCO SYST DIV WILMINGTON MA AIAA JOURNAL 20 (3) 447P. 1982

WALLACE,R.R
0470 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 1 COLONIZATION OF SYNTHETIC CRUDE-OIL CONTAMINATED SUBSTRATA $ DEP ZOOL UNIV COLL N WALES BANGOR GWYNEDD GREAT BRITAIN ENVIRON POLLUT SER A ECOL BIOL 24 (3) P. 207-218 1981

0471 LUCK,M.A., WALLACE,R.R., BARTON,D.R., CHARLTON,S. THE EFFECTS OF SYNTHETIC CRUDE-OIL ON MICROBIAL AND MACROINVERTEBRATE BENTHIC RIVER COMMUNITIES 2 THE RESPONSE OF AN ESTABLISHED COMMUNITY TO CONTAMINATION BY SYNTHETIC CRUDE-OIL $ FISHERIES AND OCEANS CANADA INST FRESHWATER WINNIPEG MANITOBA CANADA ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 24 (4) P. 253-275 1981

WALLACE,W.A
0173 CHARNES,A., COOPER,W.W., KARWAN,K.R., WALLACE,W.A. A CHANCE CONSTRAINED GOAL PROGRAMMING MODEL TO EVALUATE RESPONSE RESOURCES FOR MARINE POLLUTION DISASTERS $ TEXAS UNIV AT AUSTIN CENTER FOR CYBERNETIC STUDIES AD-A078-621/0 76P. 1979

WALLOPS-ISLAND
0082 BISHOP,J.M. PROCEEDINGS OF THE WORKSHOP ON GOVERNMENT OIL SPILL MODELING HELD AT WALLOPS-ISLAND VIRGINIA ON NOVEMBER 7-9 1979 $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. PB-80-190945 32P. 1980

WALLS
0426 LAU,Y.L. OIL BOOMS AND SKIMMER WALLS A COMPARISON DISCUSSION $ NATL WATER RES INST DIV HYDR RES ENVIRONM HYDR SECT BURLINGTON ONTARIO CAN JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION- ASCE 107 (3) 605P. 1981

0783 SHARP,J.J. OIL BOOMS AND SKIMMER WALLS A COMPARISON $ MEM UNIV NEWFOUNDLAND ST-JOHNS NEWFOUNDLAND CANADA JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION-ASCE 106 (5) P. 991-995 1980

0784 SHARP,J.J. OIL BOOMS AND SKIMMER WALLS A COMPARISON DISCUSSION $ MEM UNIV NEWFOUNDLAND ST-JOHNS NEWFOUNDLAND CANADA JOURNAL OF THE ENVIRONMENTAL ENGINEERING DIVISION-ASCE 107 (6) 1329P. 1981

WALTER,H.F
0502 MCCARTHY,L.T. JR., LINDBLOM,G.P., WALTER,H.F. CHEMICAL DISPERSANTS FOR THE CONTROL OF OIL SPILLS $ EPA EDISON NJ CHEMICAL DISPERSANTS FOR THE CONTROL OF OIL SPILLS WILLIAMSBURG VIRGINIA 1977

WAMPFLER,D.J
0326 HALL,R.H., HAIGH,D.H., MARTIN,R.G., WAMPFLER,D.J. USE OF ABSORBENT (IMBIBING) POLYMERS IN SPILL CONTROL $ DOWN CHEM CO MIDLAND MICH 13TH LOSS PREV SYMP P. 170-174 1980

WANDERS,TH.H
0108 BRIDIE,A.L., WANDERS,TH.H., ZEGVELD,W., VAN DER HEIJDE,H.B. FORMATION PREVENTION AND BREAKING OF SEA WATER IN CRUDE-OIL EMULSIONS "CHOCOLATE-MOUSSES" $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

WARD,C.H
0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

WARD,D.M
0801 WARD,D.M. DEGRADATION PROCESSES OF HYDROCARBONS $ DEP MICROBIOL MONTANA STATE UNIV BOZEMAN MT AMOCO CADIZ: CONSEQUENCES POLLUT ACCID HYDROCARBURES ACTES COLLOQ INT P. 217-22 1979

0802 WARD,D.M., ATLAS,R.M., BOEHM,P.D., CALDER,J.A. MICROBIAL BIODEGRADATION AND CHEMICAL EVOLUTION OF OIL FROM THE AMOCO-CADIZ SPILL $ MONT STATE UNIV BOZEMAN AMBIO 9 (6) P. 277-283 1980

WARD,G.S
0361 HOLLISTER,T.A., WARD,G.S., PARRISH,P.R. ACUTE TOXICITY OF A #6-FUEL-OIL TO MARINE ORGANISMS $ EG AND G BIONOM MARINE RES LAB PENSACOLA FL BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 24 (5) P. 656-661 1980

WASHINGTON
0119 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA EXECUTIVE SUMMARY $ PB-82-106352 45P. 1980

0120 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA TECHNICAL ANALYSIS $ PB-82-106360 675P. 1980

0121 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. AIR QUALITY ANALYSIS OF THE POTENTIAL IMPACT OF OFFSHORE OIL AND GAS DEVELOPMENT IN CENTRAL AND NORTHERN CALIFORNIA SUPPLEMENT $ PB-82-106378 90P. 1980

0122 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY EXECUTIVE SUMMARY 1977 $ PB-82-106692 94P. 1978

0123 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME I CHAPTERS 1-10 $ PB-81-106718 660P. 1979

0124 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF BIOLOGY AND CHEMISTRY VOLUME II CHAPTERS 11-21 $ PB-81-106726 604P. 1979

0125 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF VOLUME 9 BIOLOGICAL STUDIES $ PB-82-117474 675P. 1981

WASHINGTON

0126 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 10 BIOLOGICAL STUDIES $ PB-82-124975 790P. 1981

0127 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF FINAL REPORTS OF PRINCIPAL INVESTIGATORS VOLUME 11 BIOLOGICAL STUDIES $ PB-82-124983 675P. 1981

0128 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL STUDIES SOUTH TEXAS OUTER CONTINENTAL SHELF 1975 BIOLOGY AND CHEMISTRY $ PB-81-137689 625P. 1976

0129 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166093 577P. 1979

0130 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME II PRINCIPAL INVESTIGATORS' REPORTS SERIES 2 REPORT 18-24 $ PB-80-166101 720P. 1979

0131 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 1 REPORTS 1-17 $ PB-80-166127 795P. 1979

0132 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. SOUTHERN CALIFORNIA OUTER CONTINENTAL SHELF ENVIRONMENTAL BASELINE STUDY 1976/1977 (SECOND YEAR) BENTHIC PROGRAM VOLUME IV DATA REPORTS SERIES 2 REPORTS 18-24 $ PB-80-166135 647P. 1979

0133 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME 1 BOOK 3 CHAPTERS XV-XX $ PB-80-177488 990P. 1977

0134 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME II MASTER BIBLIOGRAPHY INDEX ACKNOWLEDGEMENTS $ PB-80-177496 516P. 1977

0135 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. A SUMMARY AND ANALYSIS OF ENVIRONMENTAL INFORMATION ON THE CONTINENTAL SHELF FROM THE BAY-OF-FUNDY TO CAPE-HATTERAS (1977) VOLUME III APPENDIX A, B.AND C $ PB-80-177504 511P. 1977

0136 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF NORTHEAST GULF OF ALASKA INTERIM SYNTHESIS REPORT $ PB-81-177883 298P. 1980

WASHINGTON

0137 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME I RECEPTORS MAMMALS BIRDS $ PB-80-186810 774P. 1979

0138 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME III RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186836 643P. 1979

0139 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF THE YEAR ENDING MARCH 1979 VOLUME IV RECEPTORS FISH LITTORAL BENTHOS $ PB-80-186844 669P. 1979

0140 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME V RECEPTORS MICROBIOLOGY CONTAMINANT BASELINES $ PB-80-186851 703P. 1979

0141 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VII TRANSPORT $ PB-80-186877 569P. 1979

0142 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME VIII TRANSPORT $ PB-80-186885 592P. 1979

0143 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME IX HAZARDS $ PB-80-186893 686P. 1979

0144 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1979 VOLUME X HAZARDS DATA MANAGEMENT $ PB-80-186901 522P. 1979

0145 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF EXECUTIVE SUMMARY APRIL 1978-MARCH 1979 $ PB-80-186919 112P. 1979

0146 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME I: RECEPTORS BIRDS PLANKTON LITTORAL BENTHOS $ PB-81-196263 815P. 1980

0147 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME II: RECEPTORS MICROBIOLOGY ECOLOGICAL PROCESSES $ PB-81-196271 521P. 1980

WASHINGTON

0148 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. ENVIRONMENTAL ASSESSMENT OF THE ALASKAN CONTINENTAL SHELF: ANNUAL REPORTS OF PRINCIPAL INVESTIGATORS FOR THE YEAR ENDING MARCH 1980 VOLUME III: EFFECTS AND CONTAMINANT BASELINES $ PB-81-196289 359P. 1980

0149 BUREAU OF LAND MANAGEMENT WASHINGTON, D.C. PROCEEDINGS OF MARINE ENVIRONMENTAL IMPLICATIONS OF OFFSHORE DRILLING IN THE EASTERN GULF OF MEXICO CONFERENCE/WORKSHOPS HELD AT ST. PETERSBURG FLORIDA ON JANUARY 31 FEBRUARY 1, 2, 1974 $ PB-80-209539 423P. 1974

0178 COAST GUARD WASHINGTON, D.C. REGULATORY ANALYSIS AND ENVIRONMENTAL IMPACT STATEMENT REGULATIONS TO IMPLEMENT THE RESULTS OF THE INTERNATIONAL CONFERENCE ON TANKER SAFETY AND POLLUTION PREVENTION $ AD-A085-460/4 277P. 1979

0179 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT: TANK BARGE B-924; EXPLOSION AND FIRE ON BOARD AT GREENVILLE MISSISSIPPI ON 13 NOVEMBER 1975 WITH LOSS OF LIFE $ PB-81-136574 25P. 1977

0180 COAST GUARD WASHINGTON, D.C. MARINE CASUALTY REPORT COLLAPSE AND SINKING OF MOBILE OFFSHORE DRILLING UNIT RANGER I IN THE GULF OF MEXICO ON 10 MAY 1979 WITH LOSS OF LIFE $ AD-A101-641/9 43P. 1979

0181 COAST GUARD WASHINGTON, D.C. THE WINDWAVE AND TURBULENCE OBSERVATION PROGRAM (WAVTOP) THE MEASUREMENT OF PARAMETERS CONTROLLING DOWNWARD MIXING OF OIL FROM THE SEA SURFACE $ AD-A083-014/1 103P. 1979

0182 COAST GUARD WASHINGTON, D.C. DEVELOPING TANKER CASUALTY AND TANKER TRAFFIC DATABASES FOR 1969-1977 $ AD-A085-655/9 384P. 1979

0183 COAST GUARD WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0201 COX,J.M., EBBESMEYER,C.C., HELSETH,J.M., COUMES,C.A. DRIFT CARD OBSERVATIONS IN NORTHWESTERN WASHINGTON ALONG PORTIONS OF TWO PROPOSED OIL PIPELINE ROUTES $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-173833 196P. 1980

0235 DEPARTMENT OF ENERGY WASHINGTON, D.C. SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN $ BENDIX CORP KANSAS CITY 57P. 1981

0236 DEPARTMENT OF ENERGY, WASHINGTON, D.C. LIQUEFIED GASEOUS FUELS SAFETY AND ENVIRONMENTAL CONTROL ASSESSMENT PROGRAM: SECOND STATUS REPORT $ 229P. 1980

0237 DEPARTMENT OF ENERGY WASHINGTON, D.C. COMBUSTION: AN OIL SPILL MITIGATION TOOL $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 554P. 1979

WASHINGTON

0238 DEPARTMENT OF ENERGY WASHINGTON, D.C. SYNTHETIC FUELS AND THE ENVIRONMENT: AN ENVIRONMENTAL AND REGULATORY IMPACTS ANALYSIS $ 652P. 1980

0239 DEPARTMENT OF ENERGY WASHINGTON, D.C. REFINERY SITING WORKBOOK: APPENDICES C TO D $ MITTELHAUSER CORP EL TORO CA 642P. 1980

0240 DEPARTMENT OF ENERGY WASHINGTON, D.C. LIQUEFIED-NATURAL-GAS WIND-TUNNEL SIMULATION AND INSTRUMENTATION ASSESSMENTS $ 366P. 1978

0241 DEPARTMENT OF ENERGY WASHINGTON, D.C. APPROACH TO LIQUEFIED-NATURAL-GAS (LNG) SAFETY AND ENVIRONMENTAL CONTROL RESEARCH $ 464P. 1978

0242 DEPARTMENT OF ENERGY WASHINGTON, D.C. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL REPORT $ 1042P. 1980

0243 DEPARTMENT OF ENERGY WASHINGTON, D.C. ENVIRONMENTAL TRENDS TO THE YEAR 2000 $ 23P. 1981

0245 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. EMERGENCY SPILLS RESEARCH STRATEGY 1980-1984 $ PB-81-206229 25P. 1980

0246 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. ENVIRONMENTAL IMPACT GUIDELINES FOR NEW SOURCE PETROLEUM REFINERIES $ PB-82-123514 128P. 1981

0248 ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. A SMALL OIL SPILL AT WEST FALMOUTH $ PB-80-170111 33P. 1979

0317 GRIMSHAW,T.W., LITTLE,W.M. REMEDIAL MEASURES PLAN FOR A SPILL OF SOLVENT REFINED COAL-LIQUID AT THE SRC PILOT PLANT FT-LEWIS WASHINGTON FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 215P. 1980

0372 ILLINOIS INST OF NATURAL RESOURCES WASHINGTON, D.C. WASTE OIL MANAGEMENT CONFERENCE ROAD TO RECOVERY 80 PROCEEDINGS HELD AT AMOCO RESEARCH CENTER NAPERVILLE ILLINOIS ON APRIL 3 1980 $ PB-80-224876 134P. 1980

0538 NATIONAL INDUSTRIAL POLLUTION CONTROL COUNCIL WASHINGTON, D.C. THE NATURAL-GAS INDUSTRY AND THE ENVIRONMENT $ 21P. 1972

0539 NATIONAL MATERIALS ADVISORY BOARD (NRC) WASHINGTON, D.C. SAFETY ASPECTS OF LIQUEFIED-NATURAL-GAS IN THE MARINE ENVIRONMENT $ PB-80-207210 355P. 1980

0540 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION WASHINGTON, D.C. REPORT TO THE CONGRESS ON OCEAN POLLUTION AND OFFSHORE DEVELOPMENT OCTOBER 1977 THROUGH SEPTEMBER 1978 $ PB-81-118333 94P. 1980

0552 NATIONAL RESEARCH COUNCIL WASHINGTON, D.C. WORKSHOP ON REDUCING TANKBARGE POLLUTION APRIL 15-16 1980 $ AD-A096-126/8 541P. 1980

WASHINGTON

0553 NATIONAL RESEARCH COUNCIL WASHINGTON, D.C. PETROLEUM IN THE MARINE ENVIRONMENT $ PB-81-119579 120P. 1979

0576 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT LIBERIAN TANK VESSEL M/V SEATIGER EXPLOSION AND FIRE SUN OIL TERMINAL NEDERLAND TEXAS APRIL 19 1979 $ PB-81-100372 32P. 1980

0577 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT FOUR-CORNERS PIPE LINE COMPANY PIPELINE RUPTURE AND FIRE LONG BEACH CALIFORNIA DECEMBER 1 1980 $ PB-82-102377 39P. 1981

0578 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US COAST GUARD CUTTER BLACKTHORN AND US TANKSHIP CAPRICORN TAMPA-BAY FLORIDA JANUARY 28 1980 $ PB-81-102048 78P. 1980

0579 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORT DERAILMENT OF AMTRAK TRAIN NO 7 THE EMPIRE BUILDER ON BURLINGTON NORTHERN TRACK GLACIER PARK MONTANA MARCH 14 1980 $ PB-81-103376 36P. 1980

0580 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT MUNICIPAL GAS DEPARTMENT OF CORDELLE GEORGIA EXPLOSION AND FIRE CORDELLE GEORGIA FEBRUARY 21 1980 $ PB-81-105629 24P. 1980

0581 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT COLLISION OF US TANKSHIP SS-EXXON-CHESTER AND LIBERIAN FREIGHTER MV-REGAL-SWORD IN THE ATLANTIC OCEAN NEAR CAPE COD MASSACHUSETTS JUNE 18 1979 $ PB-81-105694 27P. 1980

0582 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. RAILROAD ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1979 $ PB-81-103615 122P. 1980

0583 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORTS BRIEF FORMAT ISSUE NUMBER 1 1980 $ PB-81-156978 52P. 1980

0584 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. SAFETY EFFECTIVENESS EVALUATION FEDERAL AND STATE ENFORCEMENT EFFORTS IN HAZARDOUS MATERIALS TRANSPORTATION BY TRUCK $ PB-81-180101 113P. 1981

0585 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT US TANKSHIP S/S-TEXACO-NORTH-DAKOTA AND ARTIFICIAL ISLAND E1-361-A COLLISION AND FIRE GULF OF MEXICO AUGUST 21 1980 $ PB-81-191371 34P. 1981

0586 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF S/T MOBIL-VIGILANT AND S/T MARINE-DUVAL ON THE NECHES RIVER NEAR BEAUMONT TEXAS FEBRUARY 25 1979 $ PB-80-200710 36P. 1980

WASHINGTON

0587 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, BARGE PANAMA-CITY GOOD HOPE LOUISIANA AUGUST 30 1979 $ PB-80-200850 45P. 1980 D.C. MARINE ACCIDENT REPORT: COLLISION OF PERUVIAN FREIGHTER M/V INCA-TUPAC-YUPANGUI AND US BUTANE

0588 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT: COLLISION OF THE SPANISH FREIGHTER M/V PULA-DE-LENA WITH TWO MISSISSIPPI RIVER FERRY BOATS AND GRETNA FERRY LANDING NEW ORLEANS LOUISIANA FEBRUARY 3 1979 $ PB-80-200868 21P. 1980

0589 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT THE PIPELINES OF PUERTO-RICO INC PETROLEUM PRODUCTS PIPELINE RUPTURE AND FIRE BAYAMON PUERTO-RICO JANUARY 30 1980 $ PB-81-204851 69P. 1980

0590 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT UNION LIGHT HEAT AND POWER COMPANY NATURAL-GAS EXPLOSION AND FIRE SIMON-KENTON HIGH SCHOOL INDEPENDENCE KENTUCKY OCTOBER 9 1980 $ PB-81-207102 40P. 1981

0591 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSION 215 THIRD STREET SE WASHINGTON, D.C. OCTOBER 30 1979 $ PB-80-213457 33P. 1980

0592 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT WASHINGTON GAS LIGHT COMPANY NATURAL-GAS EXPLOSIONS AT ANNANDALE VIRGINIA MARCH 24 1972 $ PB-214-328/7 42P. 1972

0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

0594 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. MARINE ACCIDENT REPORT GROUNDING OF THE US TANKSHIP SS-CONCHO-CONSTABLE HOOK REACH OF KILL VAN KULL UPPER NEW-YORK HARBOR JANUARY 19 1981 $ PB-81-249443 35P. 1981

0595 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT PENNSYLVANIA GAS AND WATER COMPANY NATURAL-GAS EXPLOSIONS WILLIAMSPORT PENNSYLVANIA JANUARY 25 1977 $ PB-277-052/7ST 26P. 1977

0684 OFFICE OF RADIATION PROGRAMS WASHINGTON, D.C. THE CONSEQUENCES AND FREQUENCY OF SELECTED MAN ORIENTED ACCIDENT EVENTS $ PB-80-211303 233P. 1980

0776 DEPARTMENT OF TRANSPORTATION WASHINGTON, D.C. ANNUAL REPORT OF PIPELINE SAFETY 1978 $ PB-81-154874 95P. 1978

0777 DEPARTMENT OF TRANSPORTATION WASHINGTON, D.C. ANNUAL REPORT ON PIPELINE SAFETY 1979 $ PB-81-154882 59P. 1979

WASHINGTON,D.C

0939 NATIONAL RESEARCH COUNCIL WASHINGTON,D.C. ARCTIC TERRESTRIAL ENVIRONMENTAL RESEARCH PROGRAMS OF THE OFFICE OF ENERGY RESEARCH DEPARTMENT OF ENERGY: EVALUATION AND RECOMMENDATIONS $ PB82-197088 80P. 1982

0956 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. MARINE ACCIDENT REPORT: EXPLOSION AND FIRE ON BOARD THE SS-CHEVRON HAWAII WITH DAMAGES TO BARGES AND TO THE DEER-PARK SHELL OIL COMPANY TERMINAL HOUSTON SHIP CHANNEL SEPTEMBER 1 1979 $ PB82-171661 41P. 1980

0957 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON,D.C. PIPELINE ACCIDENT REPORT PACIFIC GAS AND ELECTRIC COMPANY NATURAL-GAS PIPELINE PUNCTURE SAN-FRANCISCO CALIFORNIA AUGUST 25 1981 $ PB82-916501 31P. 1982

WASTE

0277 FREY,J.H. ENVIRONMENTAL IMPACTS OF OIL-SHALE WASTE DISPOSAL JANUARY 1976-JUNE 1980 (CITATIONS FROM THE ENERGY DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-81-852527 82P. 1980

0351 HILLMAN,S.O.J. STORAGE AND DISPOSAL OF OILY WASTE IN ALASKA $ SOHIO PET CO ANCHORAGE ALASKA ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 88-97 1978

0355 HOFFMAN,E.J., FALKE,A.M., QUINN,J.G. WASTE LUBRICATING OIL DISPOSAL PRACTICES IN PROVIDENCE RHODE-ISLAND: POTENTIAL SIGNIFICANCE TO COASTAL WATER QUALITY $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231532 12P. 1980

0372 ILLINOIS INST OF NATURAL RESOURCES WASHINGTON, D.C. WASTE OIL MANAGEMENT CONFERENCE ROAD TO RECOVERY 80 PROCEEDINGS HELD AT AMOCO RESEARCH CENTER NAPERVILLE ILLINOIS ON APRIL 3 1980 $ PB-80-224876 134P. 1980

0408 KNOWLTON,H.E., RUCKER,J.E. REFINERY OILY WASTE TREATMENT AND DISPOSAL TECHNIQUES AND THEIR POTENTIAL APPLICATION TO OIL SPILL DEBRIS $ CHEVRON RES CO RICHMOND CALIF DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP DENVER COLO P. 109-117 1978

0421 KONDO,G. MATERIALS FOR REMOVAL OF WASTE OIL 2 OIL ADSORBENTS $ KOBE SHOSEN UNIV KOBE JAPAN KANKYO GIJUTSU 9 (6) P. 446-51 1980

0414 KRISHNAN,R., HLAVIN,R. ALTERNATIVES FOR HAZARDOUS WASTE MANAGEMENT IN THE PETROLEUM REFINING INDUSTRY $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-113417 245P. 1979

0493 MARCUS,H.S., DENHURST,M.P. PORT PLANNING STRATEGIES AND POLICY ALTERNATIVES GOVERNING WASTE RECEPTION FACILITIES FOR CHEMICAL TANKERS $ MARITIME ADMINISTRATION WASHINGTON, D.C. PB-81-104028 146P. 1980

WASTE

0742 SPATZ,D.D. MULTI-YEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMONICS INC HOPKINS MN ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 108P. 1980

0743 SPATZ,D.D. MULTIYEAR EXPERIENCE WITH OILY AND ORGANIC-CHEMICAL WASTE TREATMENT USING REVERSE-OSMOSIS $ OSMON INC IND RD HOPKINS MN ACS SYMPOSIUM SERIES (154) P. 221-236 1981

0775 TRACY,K.D., ZITRIDES,T.G. MUTANT BACTERIA AID EXXON WASTE SYSTEM $ ENVIRON DYN INC GREENVILLE SC HYDROCARBON PROCESS 59 (10) P. 95-98 1979

0800 WAHBEH,N. DISPOSAL OF OILY WASTE FROM OIL SPILLS BY LAND FARMING $ HAZARDOUS MAT MANAGEMENT INC CASTRO VALLEY CA IN: FARLOW,J.S., SWANSON,C. DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPERATION 703 P. 29-35 1980

0855 BROWN,K.W., DONNELLY,K.C. MUTAGENIC POTENTIAL OF WATER CONCENTRATES FROM THE EFFLUENT OF A WASTE OIL STORAGE POND $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 28 (4) P. 424-429 1982

1110 FARLOW,J.S., WILDER,R., POTTER,C. OIL SPILL DEBRIS WHERE TO PUT THE WASTE $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-177454 1980

WASTES

0163 CARON,D.D. EMERGENCY DISPOSAL OF OIL SPILL AND WASTES IN NORTHERN AND CENTRAL CALIFORNIA $ US COAST GUARD SAN FRANCISCO CALIF ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SUMP P. 62-75 1980

0675 ROGERS,J.E., LI,S.W. MICROBIOLOGICAL ASPECTS OF THE GROUND DISPOSAL OF OIL-SHALE WASTES $ BATTELLE PACIFIC NORTHWEST LABS RICHLAND WA 7P. 1978

0723 SIMPSON,K.W. ABNORMALITIES IN THE TRACHEAL GILLS OF AQUATIC INSECTS COLLECTED FROM STREAMS RECEIVING CHLORINATED OR CRUDE-OIL WASTES $ NEW YORK STATE DEPT HLTH DIV LABS AND RES ALBANY NY FRESHWATER BIOLOGY 10 (6) 581P. 1980

0754 SUCH,C., LEROUX,C. TREATMENT OF WASTES FROM OIL SPILLS $ LAB CENT PONTS AND CHAUSSEES PARIS FRANCE ENVIRONMENTAL TECHNOLOGY LETTERS 2 (4) P. 161-170 1981

0759 TAFFEL,W., EPSTEIN,E. A STUDY OF RAPID BIODEGRADATION OF OILY WASTES THROUGH COMPOSTING $ ENERGY RESOURCES CO INC CAMBRIDGE MA AD-A081-432/7 57P. 1979

1001 YANG,W.F., CHAD,A., SMALLWOOD,C. JR. LAND TREATMENT OF OILY WASTES REDUCTION OF CRUDE-OIL IN SOILS $ INST ENVIRON ENG NATL TAIWAN UNIV TAIPEI TAIWAN TW PROC IND WASTE CONF 36 P. 8549 1982

WASTES
1114 BONNIER,P.E. SLUDGE FARMING A TECHNIQUE FOR THE DISPOSAL OF OILY REFINERY WASTES $ CONCAWE 1980

WASTEWATER
0020 ANON. ENVIRONMENTAL IMPACT OF REFINERY WASTEWATER $ DIE AUSWIRKUNGEN VON RAFFINERIEABWAESSERN AUF DIE UMWELT ERDOEL KOHLE ERDGAS PETROCHEM VER BRENNST CHEM 33 (5) P. 214-219 1980

0153 BURNHAM,L.N., MELVIN,W.W., BUCHAN,R.M. ACUTE TOXICITY OF AN INSITU SHALE-OIL PROCESS WASTEWATER AND ITS MAJOR COMPONENTS TO DAPHNIA-MAGNA $ COLORADO STATE UNIV OCCUPAT HLTH AND SAFETY SECT FT COLLINS CO BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 27 (3) P. 338-343 1981

0288 GEALER,R.L., GOLOVOY,A., WEINTRAUB,M.H. ELECTROLYTIC TREATMENT OF OILY WASTEWATER FROM MANUFACTURING AND MACHINING PLANTS $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-225113 59P. 1980

0306 GUMOLKA,E., RYBKA,J. POLYURETHANE RESINS AS OIL SURBENTS IN WASTEWATER TREATMENT $ POLYTECH INST WROCLAW INST ENVIRONM PROTECT ENGN WROCLAW POLAND IN: PAWLOWSKI,L. PHYSICOCHEMICAL METHODS FOR WATER AND WASTEWATER TREATMENT P. 193-203 1980

0393 KARELIN,Y.A., ZHUKOV,D.D., SAIDAMINOV,I.A. BIOCHEMICAL TREATMENT OF OIL CONTAINING WASTEWATER IN AERATION TANKS $ CHEM TECHNOL FUELS OILS 15 (7-8) P. 540-544 1979

WASTEWATERS
0061 BELKEVICH,P.I., KOVZUN,A.A., SOBOL,M.I., CHRISTOVA,L.R. ORGANOPHILIC-PEAT SORBENT FOR REMOVING OILS AND PETROLEUM PRODUCTS FROM WASTEWATERS $ ACAD SCI BESSR INST PEAT MINSK BESSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (11) P. 1796-1799 1980

0416 KUTOWY,O., THAYER,W.L., TIGNER,J., SOURIRAJAN,S., DHAWAN,G.K. TUBULAR CELLULOSE-ACETATE REVERSE-OSMOSIS MEMBRANES FOR TREATMENT OF OILY WASTEWATERS $ NATL RES COUNC OF CAN OTTAWA ONT IND ENG CHEM PROD RES DEV 20 (2) P. 354-361 1981

0923 LYSYJ,I. TREATMENT OF OILY WASTEWATERS FROM ONSHORE OPERATIONS $ ROCKWELL INT CORP CTR ENVIRONM MONITORING SERV NEWBURY PK CA JOURNAL WATER POLLUTION CONTROL FEDERATION 54 (3) P. 309-315 1982

WATER-DISPLACING
0174 CHURSHUKOV,E.S., MAIKO,L.P., ZAKHAROVA,N.N., KUZNETSOV,V.A. EVALUATION OF WATER-DISPLACING ABILITY OF OILS BY ELECTROCHEMICAL METHOD $ CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (9-10) P. 766-767 1979

WATER-GASOLINE
0762 TALISMAN,L.V., SEMENOVA,I.N. PROBLEM OF THE INTRODUCTION OF WATER-GASOLINE EMULSIONS $ VSES NAUCHNO-ISSLED INST NEFT PROM MOSCOW USSR KHIM TEKHNOL TOPL MASEL (8) P. 27-30 1980

WATER-IN-MINERAL-OIL
0685 KUZENTSVAIG,A.K., TRONOV,V.P., PERGUSHEV,L.P. COALESCENCE OF DROPS OF WATER IN FINELY DISPERSE EMULSIONS OF THE WATER-IN-MINERAL-OIL TYPE $ TATAR PETR IND RES AND DESIGN INST KAZAN USSR JOURNAL OF APPLIED CHEMISTRY OF THE USSR 53 (8) P. 1345-1348 1980

WATER-IN-OIL
0177 CLAUSSE,M., BONED,C., PEYRELASSE,J., LAGOURETTE,B. , MCCLEAN,V., SHEPPARD,R.J. DIELECTRIC AND CONDUCTIVE PROPERTIES OF WATER-IN-OIL TYPE MICRO-EMULSIONS $ UNIV PAU AND PAYS ADOUR INST RECH SCI DEPT PHYS THERMODYNAM LAB PAU FRANCE IN: SHAH,D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 199-228 1981

0362 HOLMES,P.D. PRACTICAL EXPERIENCES OF THE HANDLING AND DISPOSAL OF WATER-IN-OIL EMULSIONS $ BR PET CO LONDON ENGL ASTM SPEC TECH PUBL 703 DISPOSAL OF OIL AND DEBRIS RESULTING FROM A SPILL CLEANUP OPER SYMP P. 98-108 1980

1039 HOSSAIN,K., MACKAY,D. A STUDY OF THE COMBUSTIBILITY OF WEATHERED CRUDE-OILS AND WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-12 OTTAWA ONTARIO 1980

1060 MACKAY,D., HOSSAIN,K. STUDIES OF WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-34 OTTAWA ONTARIO 1982

WATER-JET
0311 GRAHAM,D.J., URBAN,R.W., BRESLIN,M.K., JOHNSON,M.G. OHMSETT (OIL AND HAZARDOUS MATERIALS SIMULATED ENVIRONMENTAL TEST TANK) EVALUATION TESTS: THREE OIL SKIMMERS AND A WATER-JET HERDER $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB-CINCINNATI OH PB-80-174402 110P. 1980

WATER-JETS
0106 BRESLIN,M.K. USING COHERENT WATER-JETS TO CONTROL OIL-SPILLS $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-232720 108P. 1981

WATER-OIL
0220 DIDENKO,V.S. RHEOLOGICAL PROPERTIES OF WATER-OIL EMULSIONS TRANSPORTED IN PIPELINES $ NEFTYANOE KHOZYAISTVO (12) P. 53-56 1980

0475 LUND,G., HOLT,S.L. DETERGENTLESS WATER-OIL MICRO-EMULSIONS 4 THE TERNARY PSEUDO-PHASE DIAGRAM FOR AND PROPERTIES OF THE SYSTEM TOLUENE-2-PROPANOL-WATER $ UNIV GEORGIA DEPT CHEM ATHENS GA JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY 57 (8) P. 264-267 1980

WATER-SOLUBLE
0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

WATER-SOLUBLE
0205 CUCCI,T.L., EPIFANIO,C.E. LONG-TERM EFFECTS OF WATER-SOLUBLE FRACTIONS OF KUWAIT-CRUDE-OIL ON THE LARVAL AND JUVENILE DEVELOPMENT OF THE MUD-CRAB "EURYPANOPEUS-DEPRESSUS" $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-80-203508 9P. 1979

0367 HSIEH,Y.P., TOMSON,M.B., WARD,C.H. TOXICITY OF WATER-SOLUBLE EXTRACTS OF NO-2-FUEL-OIL TO THE FRESH WATER ALGA SELENASTRUM-CAPRICORNUTUM $ RICE UNIV DEPT BIOL HOUSTON TX IN: UNDERKOFLER,L.A., WOLF,M.L. DEVELOPMENTS IN INDUSTRIAL MICROBIOLOGY 21 P. 401-409 1980

0731 SMIRNOVA,A.V., PLOTNIKOVA,G.I., KORETSKII,A.F. STUDY OF THE PROPERTIES OF EMULSIONS STABILIZED WITH MIXTURES OF OIL-SOLUBLE AND WATER-SOLUBLE NON-IONIC SURFACTANTS $ ACAD SCI USSR INST INORGAN CHEM NOVOSIBIRSK USSR COLLOID JOURNAL OF THE USSR 41 (4) P. 627-631 1979

0789 VASHCHENKO,M.A. THE EFFECT OF WATER-SOLUBLE HYDROCARBON FRACTIONS OF DIESEL-FUEL ON THE DEVELOPMENT OF GAMETES AND QUALITY OF THE OFFSPRING IN THE SEA-URCHIN STRONGYLOCENTROTUS-NUDUS $ ACAD SCI USSR BIOLOGIYA MORYA-MARINE BIOLOGY (4) 68P. 1980

1043 DUVAL,W.S., FINK,R.P. THE SUBLETHAL EFFECTS OF WATER-SOLUBLE HYDROCARBONS ON THE PHYSIOLOGY AND BEHAVIOUR OF SELECTED MARINE FAUNA $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-16 OTTAWA ONTARIO 1981

1054 HUTCHESON,M.S., HARRIS,G.W. SUBLETHAL EFFECTS OF A WATER-SOLUBLE FRACTION AND CHEMICALLY DISPERSED FORM OF CRUDE-OIL ON ENERGY PARTITIONING IN TWO ARCTIC BIVALVES $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-27 OTTAWA ONTARIO 1982

WATER-SPRAY-BARRIERS
0188 COMFORT,G., MENON,B., PURVES,W.F. FEASIBILITY OF WATER-SPRAY-BARRIERS AS FIREPROOF OIL SLICK CONTAINMENT DEVICES $ ARCTEC CAN LTD KANATA ONT OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE 80'S SEATTLE WASH P. 422-427 1980

WATER-TABLE
0928 MATHES,G.M. SPILLED PETROLEUM RECOVERED FROM ATOP WATER-TABLE OF MISSISSIPPI AQUIFER $ JOHN MATHES AND ASSOC INC COLUMBIA IL CIVIL ENGINEERING 52 (6) P. 58-59 1982

WATER-WAVES
0100 BOGORODSKII,V.V., SHEVELEVA,T.I., TARASHKEVICH,V.N. DAMPING OF WATER-WAVES BY SURFACE OIL FILMS $ ARCT AND ANTARCT RES INST LENINGRAD USSR DOKLADY AKADEMII NAUK SSSR 255 (1) P. 198-201 1980

WATERBODIES
0332 HANSEN,C.A., SANDERS,R.G. REMOVAL OF HAZARDOUS MATERIAL SPILLS FROM BOTTOMS OF FLOWING WATERBODIES $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-81-230922 113P. 1981

WATERS,W.G
1098 WATERS,W.G., HEAVER,T.D., VERRIER,T. OIL POLLUTION FROM TANKER OPERATIONS -- CAUSES COSTS CONTROLS $ CENTRE FOR TRANSPORTATION STUDIES VANCOUVER CANADA 1980

WATERWAYS
0095 BURST,M., SMITH,G.F. DISPERSANT APPLICATION SYSTEM FOR THE US COAST GUARD 32-FOOT WPB (WATERWAYS PATROL BOAT) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101684 32P. 1981

0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

0917 KOOMAN,C., DEBRUIN,D., SMIT,J.A. TRAFFIC ACCIDENTS AND SAFETY MEASURES ON DUTCH WATERWAYS $ PUBL WORKS DEPT DELTA DEPT DIV ENGN BERGEN OP ZOOM NETHERLANDS IN: PERMANENT INT ASSOC NAV CONGRESSES 11 P. 313-333 1981

WATSON,A
0479 MACKAY,D., WATSON,A., NG,C., NADEAU,S. BEHAVIOR AND EFFECTIVENESS OF DISPERSANTS AT SEA AND AT SHORELINES $ UNIV OF TORONTO ONT CAN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 447-452 1979

WATSON,H.C
0047 BAKER,J.R., JONES,A.M., JONES,T.P., WATSON,H.C. OTTER LUTRA-LUTRA L MORTALITY AND MARINE OIL POLLUTION $ DEPT VET PATHOL VET FIELD STN WIRRAL CHESHIRE ENGLAND BIOLOGICAL CONSERVATION 20 (4) P. 311-321 1981

WATSON,J.L
0629 OZKAYNAK,H., MURPHY,B.L., WATSON,J.L. COMPARATIVE RISK ASSESSMENT TECHNIQUE FOR TANKER OIL SPILLS $ ENVIRON RES AND TECHNOL INC LEXINGTON MASS PROC - OIL SPILL LOS ANGELES CALIF P. 37-43 1979

WAVES
0468 LIU,H.T., LIN,J.T. EFFECTS OF AN OIL SLICK ON WIND WAVES $ FLOW RES CO KENT WASH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 665-674 1979

0534 NAESS,A. EFFECT OF BREAKING WAVES ON THE MIXING OF LIQUID POLLUTANTS INTO THE SEA $ NORW HYDRODYN LAB TRONDHEIM NATL CONF PUBL INST ENG AUST (80-1) P. 198-199 1980

0535 NAESS,A. MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ NORW HYDRODYN LAB JPT J PET TECHNOL 32 (6) P. 1113-1122 1980

0937 NAESS,A. ON THE RESIDENCE TIME OF OIL MIXED INTO THE WATER COLUMN BY BREAKING WAVES $ NORW HYDRODYN LAB OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 P. 497-508 1981

WAVES
1143 MAESS,A. THE MIXING OF OIL SPILLS INTO THE SEA BY BREAKING WAVES $ JOURNAL OF PETROLEUM TECHNOLOGY 1979

WAVTOP
0181 COAST GUARD WASHINGTON, D.C. THE WINDWAVE AND TURBULENCE OBSERVATION PROGRAM (WAVTOP) THE MEASUREMENT OF PARAMETERS CONTROLLING DOWNWARD MIXING OF OIL FROM THE SEA SURFACE $ AD-A083-014/1 103P. 1979

WEATHER
0011 ALLEN,A.A. CONTAINMENT AND RECOVERY TECHNIQUES FOR COLD WEATHER INLAND OIL SPILLS $ CROWLEY ENVIRON SERV CORP ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 345-353 1979

0118 BUHITE,T.R. CLEANUP OF A COLD WEATHER TERRESTRIAL PIPELINE SPILL $ ALYESKA PIPELINE SERV CO ANCHORAGE ALASKA PROC - OIL SPILL CONF LOS ANGELES CALIF P. 367-369 1979

0711 SEAWARD INTERNATIONAL INC FALLS-CHURCH VA OIL POLLUTION RESPONSE PLANNING GUIDE FOR EXTREME WEATHER $ AD-A079-714/2 238P. 1979

WEATHERED
0198 CORTES,A., ALTAMIRANO,J. CHEMICAL EVOLUTION OF HYDROCARBONS IN WEATHERED BEACH OIL SAMPLES AFTER THE IXTOC-1 ACCIDENT $ INST MEXICANO PETR DIV ANALYT MEXICO CITY MEXICO ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 10P. 1980

0597 NEAL,J.D. SIMPLE METHOD FOR THE DIFFERENTIATION OF FUEL-OIL AND WEATHERED CRUDE-OIL POLLUTANTS $ LAB GOV CHEM LONDON ENGL ANALYST (LONDON) 106 (1260) P. 373-4 1981

1039 HUSSAIN,K., MACKAY,D. A STUDY OF THE COMBUSTIBILITY OF WEATHERED CRUDE-OILS AND WATER-IN-OIL EMULSIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-12 OTTAWA ONTARIO 1980

1040 MACKAY,D., PATERSON,S. THE PHYSICAL PROPERTIES OF FRESH AND WEATHERED CRUDE-OILS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-13 OTTAWA ONTARIO 1980

WEATHERING
0032 ATLAS,R.M., BOEHM,P.D., CALDER,J.A. CHEMICAL AND BIOLOGICAL WEATHERING OF OIL FROM THE AMOCO-CADIZ SPILLAGE WITHIN THE LITTORAL ZONE $ UNIV LOUISVILLE DEPT BIOL LOUISVILLE KY ESTUARINE COASTAL AND SHELF SCIENCE 12 (5) P. 589-608 1981

0389 JORDAN,R.E., PAYNE,J.R. FATE AND WEATHERING OF PETROLEUM SPILLS IN THE MARINE ENVIRONMENT A LITERATURE REVIEW AND SYNOPSIS $ LA JOLLA CALIF 0 (0) P. X+174 1980

0500 MCAULIFFE,C.D., JOHNSON,J.C., GREENE,S.H., CANEVARI,G.P., SEARL,T.D. DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE OCEAN $ CHEVRON OIL FIELD RES CO LA HABRA CA ENVIRON SCI TECHNOL 14 (12) P. 1509-18 1980

WEATHERING

0501 MCAULIFFE,C.D., CANEVARI,G.P., SEARL,T.D., JOHNSON,J.C., GREENE,S.H. THE DISPERSION AND WEATHERING OF CHEMICALLY TREATED CRUDE-OILS ON THE SEA SURFACE $ STANDARD OIL CALIF CHEVRON OIL FIELD RES CO LA HABRA CA IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 573-590 1981

0626 DUDOT,J., FUSEY,P., VANPRAET,M., FERAL,J.P., GAILL,F. HYDROCARBON WEATHERING IN SEASHORE INVERTEBRATES AND SEDIMENTS OVER A 2-YEAR PERIOD FOLLOWING THE AMOCO-CADIZ OIL SPILL INFLUENCE OF MICROBIAL-METABOLISM $ MUSEUM NATL HIST NAT CNRS CRYPTOGAMIE LAB PARIS FRANCE ENVIRONMENTAL POLLUTION SERIES A-ECOLOGICAL AND BIOLOGICAL 26 (2) P. 93-110 1981

0672 RILEY,R.G., THOMAS,B.L., ANDERSON,J.W., BEAN,R.M. CHANGES IN THE VOLATILE HYDROCARBON CONTENT OF PRUDHOE-BAY CRUDE-OIL TREATED UNDER DIFFERENT SIMULATED WEATHERING CONDITIONS $ BATTELLE PAC NORTHWEST LAB RICHLAND WA MAR ENVIRON RES 4 (2) P. 109-19 1980

0803 WIDAYAT,KUSNO,P. MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

0832 ANDERSON,J.W., RILEY,R.G., KIESSER,S.L., THOMAS,B.L., FELLINGHAM,G.W. NATURAL WEATHERING OF OIL IN MARINE SEDIMENTS: TISSUE CONTAMINATION AND GROWTH OF THE CLAM PROTOTHACA-STAMINEA $ PACIFIC NORTHWEST LAB RICHLAND WA 25P. 1981

0838 ATWOOD,D.K., FERGUSON,R.L. AN EXAMPLE STUDY OF THE WEATHERING OF SPILLED PETROLEUM IN A TROPICAL MARINE ENVIRONMENT IXTOC-1 $ NOAA ATLANT OCEANOG AND METEOROL LABS RICKENBACKER CAUSEWAY MIAMI FL BULLETIN OF MARINE SCIENCE 32 (1) P. 1-13 1982

0850 BOEHM,P.D., FIEST,D.L., MACKAY,D., PATERSON,S. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDRO-CARBONS FROM THE IXTOC-1 BLOWOUT: CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ ENVIRON SCI DIV ENERGY RESOUR CO INC CAMBRIDGE MA ENVIRON SCI TECHNOL 16 (8) P. 498-505 1982

1148 BOEHM,P.D., MACKAY,D. PHYSICAL-CHEMICAL WEATHERING OF PETROLEUM HYDROCARBONS FROM THE IXTOC-I BLOWOUT - CHEMICAL MEASUREMENTS AND A WEATHERING MODEL $ UNIVERSITY OF TORONTO TORONTO ONTARIO 1981

WEB

0722 SIMENSTAD,C.A., MILLER,B.S., NYBLADE,C.F., THORNBURGH,K., BLEDSOE,L.J. FOOD WEB RELATIONSHIPS OF NORTHERN PUGET-SOUND AND THE STRAIT OF JUAN-DE-FUCA A SYNTHESIS OF THE AVAILABLE KNOWLEDGE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WA PB-80-169592 346P. 1979

WEBB,J.W
0995 WEBB,J.W., TANNER,G.T., KOERTH,B.H. OIL SPILL EFFECTS ON SMOOTH CORDGRASS IN GALVESTON-BAY TEXAS $ TEXAS A AND M UNIV DEPT RANGE SCI COLLEGE STN TX CONTRIBUTIONS IN MARINE SCIENCE 24 P. 107-114 1981

WEBER,E.C
0803 WEBER,E.C., BURGESS,W.S. MARYLAND'S EXPERIENCE IN SPILL PREVENTION AND CONTROL $ WATER RESOUR ADM ANNAPOLIS MD PROC MID ATL IND WASTE CONF 12TH BUCKNELL UNIV LEWISBURG PA P. 24-28 1980

WEBSTER,J.L
0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

WEHRY,E.L
0232 EASTWOOD,D., WEHRY,E.L. (ED) USE OF LUMINESCENCE-SPECTROSCOPY IN OIL IDENTIFICATION $ RES DEV CENT US COAST GUARD GROTON CT MOD FLUORESC SPECTROSC 4 P. 251-75 1981

WEILL,N
0347 HERMANN,M., CHAUDE,O., WEILL,N., BEDOUELLE,H., HOFNUNG,M. ADAPTATION OF THE SALMONELLA-MAMMALIAN MICROSOME TEST TO THE DETERMINATION OF THE MUTAGENIC PROPERTIES OF MINERAL-OILS $ INST PASTEUR UNITE TOXICOL GENET PARIS FRANCE MUTATION RESEARCH 79 (4) P. 327-339 1980

WEINSTEIN,M
0434 LEE,W.H., WEINSTEIN,M. COMPUTER MODELING OF MASSIVE LNG SPILLS FROM STORAGE TANKS AT POINT CONCEPTION OXNARD AND LOS-ANGELES HARBOR CALIFORNIA $ LOS ALAMOS SCI LAB NM CRYOG PROCESSES AND EQUIP IN ENERGY SYST PRESENTED AT CRYOG PROCESS AND EQUIP CONF P. 83-99 1980

WEINTRAUB,M.H
0288 GEALER,R.L., GOLOVOY,A., WEINTRAUB,M.H. ELECTROLYTIC TREATMENT OF OILY WASTEWATER FROM MANUFACTURING AND MACHINING PLANTS $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-80-225113 59P. 1980

WEIR
0999 WILSON,H.B. DEVELOPMENT AND TESTING OF A WEIR BOOM FOR OIL RECOVERY AT SEA $ BR PET CO ENGL PET REV 35 (417) P. 36-39 1981

WEISS,F.T
0645 PETRAKIS,L. (ED), WEISS,F.T. (ED) PETROLEUM IN THE MARINE ENVIRONMENT SYMPOSIUM AT THE MEETING OF THE AMERICAN CHEMICAL SOCIETY 176TH 1978 $ GULF RES AND DEV CO PITTSBURGH PA SYMP AT THE MEET OF THE ACS 371P. 1978

WEISSBERG,G.M
0057 BECCASIO,A.D., WEISSBERG,G.M., REDFIELD,A.E., FREN,R.L., LEVITAN,W.M. ATLANTIC COAST ECOLOGICAL INVENTORY USER'S GUIDE AND INFORMATION BASE $ NATIONAL COASTAL ECOSYSTEMS TEAM SLIDELL LA PB-81-102964 175P. 1980

WELKER,J.R
0497 MARTINSEN,W.E., JOHNSON,D.W., WELKER,J.R. FIRE SAFETY ON LPG IN MARINE TRANSPORTATION $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 216P. 1980

WELL
0215 DEUTSCH,M., VOLLMERS,R.R., DEUTSCH,J.P. LANDSAT TRACKING OF OIL SLICKS FROM THE 1979 GULF OF MEXICO OIL WELL BLOWOUT $ US GEOL SURV RESTON VA PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1197-1211 1980

0342 HAYES,R.M. OPERATIONAL USE OF REMOTE-SENSING DURING THE CAMPECHE-BAY OIL WELL BLOWOUT $ US COAST GUARD OCEANOGR UNIT WASHINGTON, D.C. PROC INT SYMP REMOTE SENSING ENVIRON 14TH 2 P. 1187-1196 1980

0851 BOEHM,P.D., FLEST,D.L. SUBSURFACE DISTRIBUTIONS OF PETROLEUM FROM AN OFFSHORE WELL BLOWOUT - THE IXTOC-I BLOWOUT BAY OF CAMPECHE $ ENERGY RESOURCES CO INC DIV ENVIRONM SCI CAMBRIDGE MA ENVIRONMENTAL SCIENCE AND TECHNOLOGY 16 (2) P. 67-74 1982

0873 COLLINS,J.W., PULEY,J.P. OIL SPILL CONTINGENCY PLANNING TO MINIMIZE IMPACTS FROM A MAJOR OIL WELL SPILL $ CITIES SERV CO USA OFFSHORE TECHNOL CONF 13TH ANNU PROC 2 HOUSTON TEXAS P. 473-474 1981

0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

1070 WESTGAARD,R.H. WELL CONTROL IN CASE OF OFFSHORE BLOWOUT - REPORT #1 AND WORK DOCUMENT #13 $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING NORWAY 1981

1099 ADAMS,N. WELL CONTROL PROBLEMS AND SOLUTIONS $ PETROLEUM PUBLISHING COMPANY TULSA OKLAHOMA 1980

WELLER,G
0804 WELLER,G. OIL POLLUTION IN ICE-COVERED ARCTIC WATERS $ UNIV ALASKA INST GEOPHYS FAIRBANKS AK IN: NORWEGIAN INST TECHNOL PUAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 1 P. 393-406 1979

WELLS,P.G
0745 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RECOMMENDATIONS FROM A RESEARCH APPRAISAL $ DEP ZOOL UNIV GUELPH GUELPH ONT MAR POLLUT BULL 12 (2) P. 45-46 1981

WELLS,P.G

0924 MACKAY,D., WELLS,P.G., PATERSON,S. CHEMICAL DISPERSION OF OIL SPILLS: AN INTERNATIONAL RESEARCH SYMPOSIUM $ TORONTO UNIV (ONTARIO) INST FOR ENVIRONMENTAL STUDIES 223P. 1980

1007 SAMSON,A.L., VANDERMEULEN,J.H., WELLS,P.G., MOYSE,C. A SELECTED BIBLIOGRAPHY ON THE FATE OF OIL POLLUTION RELEVANT TO THE CANADIAN MARINE ENVIRONMENT $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-80-5 OTTAWA ONTARIO 1980

1086 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-3-EC-82-2 OTTAWA ONTARIO 1982

1028 SPRAGUE,J.B., VANDERMEULEN,J.H., WELLS,P.G. OIL AND DISPERSANTS IN CANADIAN SEAS - RESEARCH APPRAISAL AND RECOMMENDATIONS $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-1 OTTAWA ONTARIO 1980

WENK,E

0750 STORCH,R.L., WENK,E. JR. VESSEL TRAFFIC SAFETY IN PUGET-SOUND $ UNIV OF WASH SEATTLE OCEANS (NEW YORK) '80 INT FORUM ON OCEAN ENG IN THE '80S SEATTLE WASH P. 181-186 1980

WENTSEL,R.S

0805 WENTSEL,R.S., JONES,W.E. III, FOUTCH,R., WILKINSON,M., KITCHENS,J.F. ACCELERATED RESTORATION OF SPILL DAMAGED LANDS $ ATLANTIC RES CORP ALEXANDRIA VA CONTROL HAZARD WATER SPILLS PROC NATL CONF P. 99-102 1980

WESSON,H.R

0228 DRAKE,E.M., WESSON,H.R. REVIEW OF LNG SPILL VAPOR DISPERSION AND FIRE HAZARD ESTIMATION AND CONTROL METHODS $ ARTHUR D. LITTLE INC CAMBRIDGE MASS AM GAS ASSOC OPER SECT PROC 17P. 1976

WESTBY,K.A

0806 WESTBY,K.A. OIL SPILL PREPAREDNESS AND CONTINGENCY PLANNING FOR THE NORWEGIAN CONTINENTAL SHELF $ PHILLIPS PETR EXPLORAT UK LTD TEESIDE ENGLAND IN: ASSOC EUROPEENNE OCEAN PETROLEUM AND THE MARINE ENVIRONMENT P. 157-174 1981

WESTGAARD,R.H

1070 WESTGAARD,R.H. WELL CONTROL IN CASE OF OFFSHORE BLOWOUT - REPORT #1 AND WORK DOCUMENT #13 $ SENTRALINSTITUTT FOR INDUSTRIELL FORSKNING NORWAY 1981

WESTLAKE,D.W.S

0807 WESTLAKE,D.W.S., COOK,F.D. PETROLEUM BIODEGRADATION POTENTIAL OF NORTHERN PUGET-SOUND AND STRAIT OF JUAN-DE-FUCA ENVIRONMENTS $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION SEATTLE WASHINGTON PB-81-141137 147P. 1980

0889 FOGHT,J.M., WESTLAKE,D.W.S. EFFECT OF THE DISPERSANT COREXIT-9527 ON THE MICROBIAL DEGRADATION OF PRUDHOE-BAY OIL $ UNIV ALBERTA DEPT MICROBIOL EDMONTON ALBERTA CANADA CANADIAN JOURNAL OF MICROBIOLOGY 28 (1) P. 117-122 1982

WESTRHEIM,K
0312 GRAHL-NIELSEN,O., WESTRHEIM,K., WILHELMSEN,S. PETROLEUM HYDROCARBONS IN THE NORTH SEA $ INST OF MAR RES BERGEN-NORDNES NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 629-632 1979

WETHEROLD,R.G
0654 PROVOST,L.P., WETHEROLD,R.G., HARRIS,G.E., HOOPER,M.W., PHILLIPS,W.R. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 4 APPENDICES C, D AND E $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-103830 529P. 1980

0808 WETHEROLD,R.G., ROSEBROOK,D.D. ASSESSMENT OF ATMOSPHERIC EMISSIONS FROM PETROLEUM REFINING: VOLUME 1 TECHNICAL REPORT $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-80-225253 482P. 1980

WETLAND
0732 SMITH,C.J., DELAUNE,R.D., PATRICK,W.H. A METHOD FOR DETERMINING STRESS IN WETLAND PLANT COMMUNITIES FOLLOWING AN OIL SPILL $ LOUISIANA STATE UNIV CTR WETLAND RESOURCES WETLAND SOILS AND SEDIMENTS LAB BATON ROUGE LA ENVIRONMENTAL POLLUTION SERIES A-ECOL AND BIOL 26 (4) P. 297-304 1981

WHELAN,J.K
0809 WHELAN,J.K., HUNT,J.M., HUC,A.Y. APPLICATIONS OF THERMAL DISTILLATION-PYROLYSIS TO PETROLEUM SOURCE ROCK STUDIES AND MARINE POLLUTION $ DEPT CHEM WOODS HOLE MA JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS 2 (1) P. 79-96 1980

WHELAN,T
0519 MILAN,C.S., WHELAN,T. III ACCUMULATION OF PETROLEUM HYDROCARBONS IN A SALT-MARSH ECOSYSTEM EXPOSED TO STEADY STATE OIL INPUT $ LOUISIANA STATE UNIV BATON ROUGE PB-80-128853 26P. 1979

WHITE,D.C
0982 SMITH,G.A., NICKELS,J.S., BOBBIE,R.J., RICHARDS,N.L., WHITE,D.C. EFFECTS OF OIL AND GAS WELL DRILLING FLUIDS ON THE BIOMASS AND COMMUNITY STRUCTURE OF MICROBIOTA THAT COLONIZE SANDS IN RUNNING SEA-WATER $ FLORIDA STATE UNIV DEPT BIOL SCI TALLAHASSEE FL ARCHIVES OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 11 (1) P. 17-23 1982

WHITE,I.C
0810 WHITE,I.C., NICHOLS,J.A., GARNETT,M.J. TEN YEAR OVERVIEW OF OIL SPILL CLEAN-UP AT SEA $ POLLUT FED LTD LONDON ENGL PROC - OIL SPILL CONF LOS ANGELES CALIF P. 247-251 1979

WHITE,J.R
0486 MANNING,A.R. JR., WHITE,J.R., VOLLMERS,R.R. CURRENT STATUS OF REMOTE-SENSING FOR OIL POLLUTION CONTROL IN US COASTAL WATERS $ US COAST GUARD PROC INT SYMP REMOTE SENSING ENVIRON 14TH SAN JOSE COSTA RICA P. 249-268 1980

0881 WHITE,J.R., SCHMIDT,R.E., PLAGE,W.E. AIREYE REMOTE-SENSING SYSTEM FOR OIL SPILL SURVEILLANCE $ US COAST GUARD WASHINGTON, D.C. PROC - OIL SPILL CONF LOS ANGELES CALIF P. 301-304 1979

WHITTINGHAM,K.P

0600 NEUSTADTER,E., WHITTINGHAM,K.P., GRAHAM,D.E. INTERFACIAL RHEOLOGICAL PROPERTIES OF CRUDE-OIL-WATER SYSTEMS $ PB RES CTR DIV NEW TECHNOL SUNBURY THAMES MIDDLESEX ENGLAND IN: SHAH, D.O. SURFACE PHENOMENA IN ENHANCED OIL RECOVERY P. 307-326 1981

WHITTLE,P.J

0812 WHITTLE,P.J., HORNE,M.W. CHARACTERIZATION OF OIL SPILLS ON INLAND AND ESTUARINE WATERS $ NORTH WEST WATER AUTH WARRINGTON ENGL J INST WATER ENG SCI 34 (1) P. 50-60 1980

WIDAYAT,K.P

0996 WIDAYAT,K.P., MOERDOKO,W., WINIATI,W., HAGIWARA,K. HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP III FORMATION AND EVALUATION OF THE NATURAL SORBENTS $ OSAKA IND RES INST OSAKA JAPAN OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (4) P. 269-75 1981

WIDAYAT,KUSNU,P

0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWAKA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

0814 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWAKA,K., HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP II THE EVALUATION OF OIL ABSORBABILITY OF NATURAL SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 29-35 1981

WIDDOWS,J

0997 WIDDOWS,J., BAKKE,T., BAYNE,B.L., DONKIN,P., LIVINGSTONE,D.R., LOWE,D.M., MOORE,M.N., EVANS,S.V., MOORE,S.L. RESPONSES OF MYTILUS-EDULIS ON EXPOSURE TO THE WATER ACCOMMODATED FRACTION OF NORTH SEA OIL $ INST MARINE ENVIRONM RES PROSPECT PLACE THE HOE PLYMOUTH DEVON ENGLAND MARINE BIOLOGY 67 (1) P. 15-31 1982

WIDEN,A

0338 HARTMANN,B., STEINVALL,O., WIDEN,A. TESTS OF LASER INDUCED FLUORESCENCE FROM ALGAE AT SEA $ LASERINDUCERAD FLUORESCENS FRAAN ALGER RESULTAT FRAAN ETT BAATBUR RESEARCH INST OF NATIONAL DEFENCE STOCKHOLM (SWEDEN) 52P. 1979

WIENS,J.A

0891 FORD,K.G., WIENS,J.A., HEINEMANN,D., HUNT,G.L. MODELING THE SENSITIVITY OF COLONIALLY BREEDING MARINE BIRDS TO OIL SPILLS GUILLEMOT AND KITTIWAKE POPULATIONS ON THE PRIBILOF-ISLANDS BERING SEA $ UNIV CALIF IRVINE DEPT ECOL AND EVOLUT BIOL IRVINE CA JOURNAL OF APPLIED ECOLOGY 19 (1) P. 1-31 1982

WIESENBURG,D.A
0112 BROOKS,J.M., WIESENBURG,D.A., BURKE,R.A. JR., KENNICUTT,M.C. GASEOUS AND VOLATILE HYDROCARBON INPUTS FROM A SUBSURFACE OIL SPILL IN THE GULF OF MEXICO $ DEP OCEANOGR TEXAS A AND M UNIV COLLEGE STATION TX ENVIRON SCI TECHNOL 15 (8) P. 951-9 1981

0998 WIESENBURG,D.A., BODENNEC,G., BROOKS,J.M. VOLATILE LIQUID HYDROCARBONS AROUND A PRODUCTION PLATFORM IN THE NORTHWEST GULF OF MEXICO $ TEX A AND M UNIV COLLEGE STATION USA BULL ENVIRON CONTAM TOXICOL 27 (2) P. 167-174 1981

WILDER,R
1110 FARLOW,J.S., WILDER,R., POTTER,C. OIL SPILL DEBRIS WHERE TO PUT THE WASTE $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO PB80-177454 1980

WILDLIFE
0009 ALBERS,P.H. OIL DISPERSANTS AND WILDLIFE $ USEWS PATUXENT WILDLIFE RESEARCH CENTER LAUREL MD US FISH AND WILDLIFE SERVICE POLLUTION RESPONSE WORKSHOP ST PETERSBURG FLORIDA P. 67-72 1979

0113 BROWN,C.H. PROCEEDINGS OF THE 1979 US FISH AND WILDLIFE SERVICE POLLUTION RESPONSE WORKSHOP HELD AT ST PETERSBURG FLORIDA ON 8 $ FISH AND WILDLIFE SERVICE WASHINGTON, D.C. PB-80-141591 212P. 1979

WILDUNG,R.E
0671 RILEY,R.G., GARLAND,T.R., SHIOSAKI,K., MANN,D.C., WILDUNG,R.E. ALKYLPYRIDINES IN SURFACE WATERS GROUND-WATERS AND SUBSOILS OF A DRAINAGE LOCATED ADJACENT TO AN OIL-SHALE FACILITY $ BATELLE MEM INST PACIFIC NW LABS RICHLAND WA ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 180 78P. 1980

WILHELMSEN,S
0312 GRAHL-NIELSEN,O., NESTRHEIM,K., WILHELMSEN,S. PETROLEUM HYDROCARBONS IN THE NORTH SEA $ INST OF MAR RES BERGEN-NORDNES NORW PROC - OIL SPILL CONF LOS ANGELES CALIF P. 629-632 1979

WILKENS,E.P
0770 TILLERY,J.B., JACKSON,W.B., WILKENS,E.P. ENVIRONMENTAL ASSESSMENT OF BUCCANEER GAS AND OIL FIELD IN THE NORTHWESTERN GULF OF MEXICO 1975-1980 VOLUME VI TRACE METALS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-192197 72P. 1980

WILKES,E.G
0973 REISH,D.J., OSHIDA,P.S., WILKES,E.G., MEARNS,A.J., ROSI,S.S. MARINE ESTUARINE POLLUTION $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB82-128174 28P. 1981

WILKINSON,B.K
1068 COPENHAVER,E.D., WILKINSON,B.K. MOVEMENT OF HAZARDOUS SUBSTANCES IN SOIL A BIBLIOGRAPHY VOLUME 2 PESTICIDES $ PB80-113111 228P. 1979

WILKINSUN,M
0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRUNMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

0805 WENTSEL,R.S., JONES,W.E. III, FOUTCH,R., WILKINSON,M., KITCHENS,J.F. ACCELERATED RESTORATION OF SPILL DAMAGED LANDS $ ATLANTIC RES CORP ALEXANDRIA VA CONTROL HAZARD WATER SPILLS PROC NATL CONF P. 99-102 1980

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

WILKINSON,P
0783 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRUNMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-112518 86P. 1980

0784 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. EFFECTS OF EXPERIMENTAL OILING ON RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITATS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-81-247165 144P. 1981

0791 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P. RESEARCH TO INVESTIGATE EFFECTS FROM PRUDHOE-BAY CRUDE-OIL ON INTERTIDAL INFAUNA OF THE STRAIT OF JUAN-DE-FUCA FIRST ANNUAL REPORT $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION BOULDER CO PB-80-160955 46P. 1979

1142 VANDERHORST,J.R., BLAYLOCK,J.W., WILKINSON,P., WILKINSON,M., FELLINGHAM,G. RECOVERY OF STRAIT OF JUAN-DE-FUCA INTERTIDAL HABITAT FOLLOWING EXPERIMENTAL CONTAMINATION WITH OIL $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB81-112518 1980

WILLIAMS
0593 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT: WILLIAMS PIPE LINE COMPANY GASOLINE EXPLOSION AND FIRE ROSEVILLE MINNESOTA APRIL 16 1981 $ PB-81-236820 38P. 1981

WILLIAMS,D.C
0815 WILLIAMS,D.C., HOM,K.B. ONSHORE IMPACTS OF OFFSHORE OIL: A USER'S GUIDE TO ASSESSMENT METHODS $ DEPARTMENT OF THE INTERIOR WASHINGTON, D.C. PB-82-103474 72P. 1979

WILLIAMS,G.C
0296 GEORGAKIS,C., CONGALIDIS,J., WILLIAMS,G.C. MODEL FOR NON-INSTANTANEOUS LNG AND GASOLINE SPILLS $ MIT CAMBRIDGE MASS FUEL 58 (2) P. 113-120 1979

WILLIAMS,T.D
0980 SINIFF,D.B., WILLIAMS,T.D., JOHNSON,A.M., GARSHELIS,D.L. EXPERIMENTS ON THE RESPONSE OF SEA OTTERS ENHYDRA-LUTRIS TO OIL CONTAMINATION $ UNIV MINNESOTA DEPT ECOL AND BEHAV BIOL MINNEAPOLIS MN BIOLOGICAL CONSERVATION 23 (4) P. 261-272 1982

WILLIAMSPORT
0595 NATIONAL TRANSPORTATION SAFETY BOARD WASHINGTON, D.C. PIPELINE ACCIDENT REPORT PENNSYLVANIA GAS AND WATER COMPANY NATURAL-GAS EXPLOSIONS WILLIAMSPORT PENNSYLVANIA JANUARY 25 1977 $ PB-277-052/7ST 26P. 1977

0796 VILLAUME,J.F., HERRE,B.H., VOYKIN,D.P. CLEANUP OF AN OIL SPILL INTO GROUND-WATER AT WILLIAMSPORT PENNSYLVANIA A CASE HISTORY $ PA POWER AND LIGHT CO ALLENTOWN PROC - OIL SPILL CONF LOS ANGELES CALIF P. 501-505 1979

WILSON,A.R
0816 WILSON,A.R. AN EXPERIMENTAL THERMAL CORRECTION FOR PREDICTED OIL FILM THICKNESS IN ELASTOHYDRODYNAMIC CONTACTS $ SHELL RES LTD THORNTON RES CTR CHESTER CHI CHESHIRE ENGL IN: DOWSON,D., TAYLOR,C.M., GODET,M., BERTHE,D. THERMAL EFFECTS IN TRIBOLOGY P. 179-190 1980

WILSON,H.B
0989 WILSON,H.B. DEVELOPMENT AND TESTING OF A WEIR BOOM FOR OIL RECOVERY AT SEA $ BR PET CO ENGL PET REV 35 (417) P. 36-39 1981

WILSON,L
0260 FIELDER,G., TELFER,D.J., HALL,T.S., WILSON,L., FRYER,R.J. SATELLITE MONITORING OF SEA SURFACE POLLUTION $ NATIONAL AERONAUTICS AND SPACE ADMINISTRATION GREENBELT MD 22P. 1980

WILSON,M
0249 ESTES,J.E., WILSON,M., HAJIC,E. ANALYSIS OF SEASAT-A SAR (SYNTHETIC-APERTURE-RADAR) DATA FOR THE DETECTION OF OIL ON THE OCEAN SURFACE $ NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION ROCKVILLE MD PB-81-153405 106P. 1980

WILSON,M.P
0887 WILSON,M.P. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 1048P. 1981

1084 WILSON,M.P. ASSESSMENT OF TREATED VS UNTREATED OIL SPILLS FINAL TECHNICAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 1981

WILSON,R
0787 VAN HORN,A.J., WILSON,R. POTENTIAL RISKS OF LIQUEFIED-NATURAL-GAS $ HARVARD UNIV ENERGY AND ENVIRON POLICY CENT CAMBRIDGE MASS 2 (4) P. 375-389 1977

WILSON,T.D
0818 WILSON,T.D. ENVIRONMENTAL REGULATIONS HANDBOOK FOR ENHANCED OIL RECOVERY FINAL REPORT $ DEPARTMENT OF ENERGY WASHINGTON, D.C. 210P. 1980

WIND
0468 LIU,H.T., LIN,J.T. EFFECTS OF AN OIL SLICK ON WIND WAVES $ FLOW RES CO KENT WASH PROC - OIL SPILL CONF LOS ANGELES CALIF P. 665-674 1979

0744 SPILLANE,K.T. EVALUATION OF WIND INDUCED DRIFT AND SPREAD OF OIL IN REEF WATERS FORECASTING OF RISK TO A SITE FROM ACCIDENTAL AND CHRONIC SPILLAGE $ CSIRO DIV ATMOSPHER PHYS ASPENDALE VIC AUSTRALIA IN: INST ENGINEERS AUSTRALIA CONFERENCE ON ENVIRONMENTAL ENGINEERING 81 P. 96-101 1981

0916 KITAMURA,Y., TAKAHASHI,T. WIND INDUCED DRIFT OF OIL SLICKS SPREAD ON WATER SURFACE $ OKAYAMA UNIV DEPT IND CHEM OKAYAMA JAPAN KAGAKU KOGAKU RONBUNSHU 8 (2) P. 194-198 1982

1116 ANONYMOUS BURNING OF CRUDE-OIL UNDER WIND HERDING CONDITIONS $ ENERGETEX ENGINEERING WATERLOO ONTARIO 1981

WIND-TUNNEL
0240 DEPARTMENT OF ENERGY WASHINGTON, D.C. LIQUIFIED-NATURAL-GAS WIND-TUNNEL SIMULATION AND INSTRUMENTATION ASSESSMENTS $ 366P. 1978

WINDWAVE
0181 COAST GUARD WASHINGTON, D.C. THE WINDWAVE AND TURBULENCE OBSERVATION PROGRAM (WAVTOP) THE MEASUREMENT OF PARAMETERS CONTROLLING DOWNWARD MIXING OF OIL FROM THE SEA SURFACE $ AD-A083-014/1 103P. 1979

WINIATI,W
0813 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S., SAITO,T., MURAKAMI,Y., HIGASHI,K. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP I WEATHERING TEST OF SPILLED OIL AND ABSORBABILITY OF THE SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 21-8 1981

0814 WIDAYAT,KUSNO,P., MOERDOKO,W., WINIATI,W., HAGIWARA,K., HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP II THE EVALUATION OF OIL ABSORBABILITY OF NATURAL SORBENTS $ CENT INST TEXT RES DEV BANDUNG INDONESIA OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (1) P. 29-35 1981

0996 WIDAYAT,K.P., MOERDOKO,W., WINIATI,W., HAGIWARA,K. HONDA,S. RESEARCH ON THE DEVELOPMENT AND APPLICATION OF NATURAL SORBENTS FOR OIL SPILL CLEAN-UP III FORMATION AND EVALUATION OF THE NATURAL SORBENTS $ OSAKA IND RES INST OSAKA JAPAN OSAKA KOGYO GIJUTSU SHIKENSHO KIHO 32 (4) P. 269-75 1981

WISE,S.A
0819 WISE,S.A., CHESLER,S.N., HERTZ,H.S., MAY,W.E., GUENTHER,F.R. DETERMINATION OF TRACE LEVEL HYDROCARBONS IN MARINE BIOTA $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-126278 11P. 1980

0820 WISE,S.A., CHESLER,S.N., GUENTHER,F.R., HERTZ,H.S. HILPERT,L.R. INTERLABORATORY COMPARISON OF DETERMINATIONS OF TRACE LEVEL HYDROCARBONS IN MUSSELS $ NATIONAL BUREAU OF STANDARDS WASHINGTON, D.C. PB-81-140253 6P. 1980

WOLD,M
1134 LANGFELDT,J.N., WOLD,M. FULL SCALE TESTS WITH OIL RECOVERY SYSTEMS OFFSHORE $ OIL POLLUTION CONTROL - R AND D PROGRAM OSLO NORWAY 1981

WOLFE,N.L
1065 WOLFE,N.L., PARIS,D.F., STEEN,W.C., BAUGHMAN,G.L. CORRELATION OF MICROBIAL DEGRADATION RATES WITH CHEMICAL STRUCTURE $ AMERICAN CHEMICAL SOCIETY 14 (9) P. 1143-1144 1980

WOLFSUN,M.W
0821 WOLFSUN,M.W. VLCC LIGHTERING OPERATIONS IN SOUTHERN CALIFORNIA $ US COAST GUARD MAR SAFETY OFF SAN DIEGO CALIF PROC - OIL SPILL CONF LOS ANGELES CALIF P. 119-120 1979

WONG,C.K
0822 WONG,C.K., ENGELHARD,F.R., STRICKLER,J.R. SURVIVAL AND FECUNDITY OF DAPHNIA-PULEX ON EXPOSURE TO PARTICULATE OIL $ UNIV OF OTTAWA ONT CAN BULL ENVIRON CONTAM TOXICOL 26 (5) P. 606-612 1981

WONG,M.P
0244 ENGELHARDT,F.R., WONG,M.P., DUEY,M.E. HYDROMINERAL BALANCE AND GILL MORPHOLOGY IN RAINBOW-TROUT SALMO-GAIRDNERI ACCLIMATED TO FRESH AND SEA-WATER AS AFFECTED BY PETROLEUM EXPOSURE $ NO ENVIRONM PROTECT DEPT INDIAN AFFAIRS AND NO DEV OTTAWA CANADA AQUATIC TOXICOLOGY 1 (3-4) P. 175-186 1981

WOODRUFF,D.L
0038 AUGENFELD,J.M., ANDERSON,J.W., WOODRUFF,D.L., WEBSTER,J.L. EFFECTS OF PRUDHOE-BAY CRUDE-OIL CONTAMINATED SEDIMENTS ON PROTOTHACA-STAMINEA (MOLLUSCA-PELECYPODA) HYDROCARBON CONTENT CONDITION INDEX FREE AMINO-ACID LEVEL $ BATTELLE MEM INST PACIFIC NW LABS MARINE RES LAB RICHLAND WA MARINE ENVIRONMENTAL RESEARCH 4 (2) P. 135-143 1980

0618 OLLA,B.L., PEARSON,W.H., SUGARMAN,P.C., WOODRUFF,D.L., BLAYLOCK,J.W. THE EFFECTS OF PETROLEUM HYDROCARBONS ON CHEMORECEPTION AND BEHAVIOR IN THE DUNGENESS-CRAB "CANCER-MAGISTER" $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. PB-82-116716 83P. 1981

0968 PEARSON,W., WOODRUFF,D.L., SUGARMAN,P.C., OLLA,B. EFFECTS OF OILED SEDIMENT ON PREDATION ON THE LITTLENECK CLAM PROTOTHACA-STAMINEA BY THE DUNGENESS-CRAB CANCER-MAGISTER $ BATTELLE PAC NORTHWEST LAB SEQUIM WASHINGTON ESTUARINE COASTAL SHELF SCI 13 (4) P. 445-454 1981

WORKBOOK
0239 DEPARTMENT OF ENERGY WASHINGTON, D.C. REFINERY SITING WORKBOOK: APPENDICES C TO D $ MITTELHAUSER CORP EL TORO CA 642P. 1980

WORLD
0016 ANIKIEV,V.V., BENDERSKII,V.A., DENISOV,E.T., ILLICHEV,V.I., SOKOLOV,E.A. ESTIMATION OF THE PHOTOCHEMICAL DEGRADATION EFFICIENCY OF WORLD OCEAN OIL POLLUTIONS $ ACAD SCI USSR FAR E SCI CTR PACIFIC OCEANOL INST VLADIVOSTOK DOKLADY AKADEMII NAUK SSSR 259 (5) P. 1225-1229 1981

1107 ANONYMOUS WORLD WIDE DIRECTORY OFFSHORE CONTRACTORS AND EQUIPMENT $ THE PETROLEUM PUBLISHING CO TULSA OKLAHOMA 1979

WORSFOLD,R
0634 PARASHAR,S., STAPLETON,G., WORSFOLD,R., ONEIL,R., GRAY,L. ASSESSMENT OF SAR FOR OIL POLLUTION SURVEILLANCE IN THE ICE ENVIRONMENT $ REMOTEC APPLICAT INC ST JOHNS NEWFOUNDLAND IN: NORWEGIAN INST TECHNOL PUAC 79: THE FIFTH INTERNATIONAL CONFERENCE ON PORT AND OCEAN ENGINEERING UNDER ARCTIC CONDITIONS 3 P. 99-123 1979

WORSFOLD,R.D
1011 DAWE,B.R., PARASHAR,S.K., RYAN,J.P., WORSFOLD,R.D. THE USE OF SATELLITE IMAGERY FOR TRACKING THE KURDISTAN OIL SPILL $ ENVIRONMENTAL PROTECTION SERVICE REPORT # EPS-4-EC-81-6 OTTAWA ONTARIO 1981

WPB
0095 BORST,M., SMITH,G.F. DISPERSANT APPLICATION SYSTEM FOR THE US COAST GUARD 32-FOOT WPB (WATERWAYS PATROL BOAT) $ MUNICIPAL ENVIRONMENTAL RESEARCH LAB CINCINNATI OHIO PB-82-101684 32P. 1981

WRECK
0356 HOFFMAN,E.J., QUINN,J.G., JADAMEC,J.R., FORTIER,S.H. COMPARISON OF UV FLUORESCENCE AND GAS CHROMATOGRAPHIC ANALYSES OF HYDROCARBONS IN SEDIMENTS FROM THE VICINITY OF THE ARGO-MERCHANT WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-233843 10P. 1981

0358 HOFFMAN,E.J., QUINN,J.G. GAS-CHROMATOGRAPHIC ANALYSES OF ARGO-MERCHANT OIL AND SEDIMENT HYDROCARBONS AT THE WRECK SITE $ ENVIRONMENTAL RESEARCH LAB NARRAGANSETT RI PB-81-231524 7P. 1981

1095 FAIRHALL,D., JORDAN,P. BLACK TIDE RISING - THE WRECK OF THE AMOCO-CADIZ $ ANDRE DEUTSCH LIMITED LONDON 1980

WRIGHT,D
1067 BRASSARD,C., HARRISON,P., KWAMENA,F.A., WRIGHT,D. ONSHORE IMPACTS OF OFFSHORE HYDROCARBON DEVELOPMENT AN ANNOTATED BIBLIOGRAPHY $ ENVIRONMENT CANADA OTTAWA ONTARIO 1981

WRIGHT,D.G
0823 WRIGHT,D.G. PLAN FOR SCIENTIFIC RESPONSE TO AN OIL SPILL IN THE BEAUFORT-SEA $ FISH AND ENVIRON CAN WINNIPEG MANIT PROC - OIL SPILL CONF LOS ANGELES CALIF P. 525-532 1979

WU,R.S.S
0767 THOMPSON,G.B., WU,R.S.S. TOXICITY TESTING OF OIL SLICK DISPERSANTS IN HONG-KONG $ FISHERIES RES STN ABERDEEN HONG KONG MARINE POLLUTION BULLETIN 12 (7) P. 233-237 1981

0824 WU,R.S.S. DIFFERENCES IN THE TOXICITIES OF AN OIL DISPERSANT AND A SURFACE ACTIVE AGENT TO SOME MARINE ANIMALS AND THEIR IMPLICATIONS IN THE CHOICE OF SPECIES IN TOXICITY TESTING $ FISHERIES RES STN ABERDEEN HONG KONG MARINE ENVIRONMENTAL RESEARCH 5 (2) P. 157-163 1981

YAKOVLEV,E.I
0830 ZVEREVA,T.V., YAKOVLEV,E.I. IMPROVEMENT IN METHODS OF RATING OIL PIPELINE SYSTEMS $ NEFTYANOE KHOZYAISTVO (7) P. 66-68 1980

YAMADA,M.M
0604 NORTON,R.L., SAKAIDA,R.R., YAMADA,M.M. HYDROCARBON CONTROL STRATEGIES FOR GASOLINE MARKETING OPERATIONS $ ENVIRONMENTAL PROTECTION AGENCY RESEARCH TRIANGLE PK NC PB-80-194632 128P. 1978

YAMAGUCHI,M
0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

YANG,J.T
1000 YANG,J.T., BYE,W.E. METHODS OF PREVENTING DETECTING AND DEALING WITH SURFACE SPILLS OF CONTAMINANTS WHICH MAY DEGRADE UNDERGROUND WATER SOURCES FOR PUBLIC WATER SYSTEMS $ ENVIRONMENTAL PROTECTION AGENCY WASHINGTON,D.C. PB82-204082 118P. 1979

YANG,W.F
1001 YANG,W.F., CHAO,A., SMALLWOOD,C. JR. LAND TREATMENT OF OILY WASTES REDUCTION OF CRUDE-OIL IN SOILS $ INST ENVIRON ENG NATL TAIWAN UNIV TAIPEI TAIWAN TW PROC IND WASTE CONF 36 P. 8549 1982

YANG,Y.Y
0642 PEPELKO,W.E., MATTOX,J.K., YANG,Y.Y., MOORE,W. JR. PULMONARY FUNCTION AND PATHOLOGY IN CATS EXPOSED 28 DAYS TO DIESEL EXHAUST $ HEALTH EFFECTS RESEARCH LAB CINCINNATI OHIO PB-81-196578 11P. 1980

YANOV,B.G
0520 MIRONOV,O.G., SHCHEKATURINA,T.L., YANOV,B.G., STEPANETS,L.G. USE OF MUSSELS IN PURIFICATION OF OIL CONTAINING SEA WATERS $ NEFTYANOE KHOZYAISTVO (6) P. 63-65 1981

YARBROUGH,H.F
0737 SNAVELY,E.S. JR., YARBROUGH,H.F. OFFSHORE OILY WATER SEPARATION $ MOBIL RES AND DEV CORP USA SOC PET ENG AIME PAP SPE PROC MIDDLE EAST TECH CONF MANAMA BAHRAIN P. 31-36 1981

YEAST
0204 CROW,S.A., AHEARN,D.G. DEGRADATION OF OIL BY YEAST AND FILAMENTOUS FUNGI IN ARCTIC ENVIRONMENTS $ GEORGIA STATE UNIV ATLANTA AD-A078-892/7 13P. 1979

YEASTS
0003 AHEARN,D.G., CROW,S.A. YEASTS FROM THE NORTH SEA AND AMOCO-CADIZ OIL $ ENVIRONMENTAL RESEARCH LAB GULF BREEZE FL PB-81-110496 5P. 1980

YEN,B.C
0825 YEN,B.C., TSAO,C.H., HINKLE,R.D. SOIL-PIPE INTERACTION OF HEATED OIL PIPELINES $ CALIF STATE UNIV LONG BEACH CA TRANSPORTATION ENGINEERING JOURNAL OF ASCE 107 (1) P. 1-14 1981

YIELD
0854 BROWN,K.W., BRAWAND,H., THOMAS,J.C., EVANS,G.B. IMPACT OF SIMULATED LAND TREATMENT WITH OILY SLUDGES ON RYEGRASS EMERGENCE AND YIELD $ TEXAS A AND M UNIV DEPT SOIL AND CROP SCI COLLEGE STN TX AGRONOMY JOURNAL 74 (2) P. 257-261 1982

YOCOM,T.G
0070 BENVILLE,P.E., YOCOM,T.G., NUNES,P., ONEILL,J.M. SIMPLE CONTINUOUS-FLOW SYSTEMS FOR DISSOLVING THE WATER-SOLUBLE COMPONENTS OF CRUDE-OIL INTO SEA-WATER FOR ACUTE OR CHRONIC EXPOSURE OF MARINE ORGANISMS $ NATL MARINE FISHERIES SERV SW FISHERIES CTR TIBURON LAB PARADISE OR TIBURON CA WATER RESEARCH 15 (10) P. 1197-1204 1981

YOKOSHIMA,I
0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

YOKOTA,M
0598 NEMOTO,T., YOKOSHIMA,I., KATO,Y., HIDAKA,T., KURIOKA,Y., YOKOTA,M., HASHIMOTO,S., NAKANO,H., YAMAGUCHI,M. MICROWAVE REMOTE-SENSING TECHNOLOGY FOR THE MARINE OIL POLLUTION SURVEILLANCE $ CIRC ELECTROTECH LAB TOKYO (202) 164P. 1979

YOUNG,B.S
0826 YOUNG,B.S., GEMICI,Y. FLOW MONITORING FOR LEAK DETECTION $ FOXBORO MUNICIPAL SALES INC FOXBORO MA IN: INSTRUMENT SOC AMER ADVANCES IN INSTRUMENTATION 35 PT 1 P. 497-502 1980

ZAKHAROVA,N.N
0174 CHURSHUKOV,E.S., MAIKO,L.P., ZAKHAROVA,N.N., KUZNETSOV,V.A. EVALUATION OF WATER-DISPLACING ABILITY OF OILS BY ELECTROCHEMICAL METHOD $ CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (9-10) P. 766-767 1979

ZAKUPRA,V.A
0827 ZAKUPRA,V.A., KOZAK,V.A., VYKHRESTYUK,N.I., TKACHENKO,D.A. SEPARATION OF PETROLEUM CUTS AND LUBE OILS WITH DETERGENT ADDITIVES BY MEANS OF 2 STAGE CONTINUOUS LIQUID-CHROMATOGRAPHY $ ALL UNION PETR REFINING AND PETROCHEM IND RES AND DESIGN INST MOSCOW CHEMISTRY AND TECHNOLOGY OF FUELS AND OILS 15 (11-1) P. 846-850 1979

ZEGVELD,W
0108 BRIDIE,A.L., WANDERS,TH.H., ZEGVELD,W., VAN DER HEIJDE,H.B. FORMATION PREVENTION AND BREAKING OF SEA WATER IN CRUDE-OIL EMULSIONS 'CHOCOLATE-MOUSSES' $ KONINKLIJKE/SHELL-LAB AMSTERDAM NETH MAR POLLUT BULL 11 (12) P. 343-8 1980

ZERLIA,T
0771 TITTARELLI,P., BALDASSARRI,L.T., ZERLIA,T. IDENTIFICATION OF SPILLED CRUDE-OILS BY VAPORPHASE ULTRAVIOLET-ABSORPTION-SPECTROMETRY $ STAZ SPERIMENTALE COMBUSTIBILI,VIALE A DE GASPERI SAN DONATO MILANE ITALY ANALYTICAL CHEMISTRY 53 (11) P. 1706-1708 1981

ZERVINS,A
0391 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 1 NARRATIVE $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-82-117078 322P. 1981

0392 KACZMAREK,T.D., ZERVINS,A. BIOASSAY AND CHEMICAL ANALYSIS FOR HAZARDOUS MATERIALS IN RESIDUAL OILS VOLUME 2 APPENDICES $ INDUSTRIAL ENVIRONMENTAL RESEARCH LAB RESEARCH TRIANGLE PARK NC PB-81-190944 477P. 1981

ZHU,J.-C
0828 ZHU,J.-C. PREPARATION OF A DISPERSER FOR OIL SPILLS $ INST SCI RES MINIS TRANSPORTATION PEOP REP CHINA HUAN CHING K'O HSUEH 1 (5) P. 62-6, 47 1980

ZHUKOV,D.D
0393 KARELIN,Y.A., ZHUKOV,D.D., SAIDAMINOV,I.A. BIOCHEMICAL TREATMENT OF OIL CONTAINING WASTEWATER IN AERATION TANKS $ CHEM TECHNOL FUELS OILS 15 (7-8) P. 540-544 1979

ZITRIDES,T.G
0785 TRACY,K.D., ZITRIDES,T.G. MUTANT BACTERIA AID EXXON WASTE SYSTEM $ ENVIRON DYN INC GREENVILLE SC HYDROCARBON PROCESS 59 (10) P. 95-98 1979

ZOLLARS,G.F
0829 ZOLLARS,G.F. REMOTE-SENSING APPLIED TO POLLUTION MONITORING 1976-JUNE 1980 (CITATIONS FROM THE INTERNATIONAL AEROSPACE ABSTRACTS DATA BASE) $ NATIONAL TECHNICAL INFORMATION SERVICE SPRINGFIELD VA PB-80-815632 61P. 1980

ZONES
0259 FERGUSON,J.D. FORMATION OF DIAGENETIC ALTERATION ZONES BY LEAKING RESERVOIR HYDROCARBONS OVER 3 OIL-FIELDS IN OKLAHOMA $ GULF OIL EXPLORAT AND PROD CO HOUSTON TX AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS 65 (5) 924P. 1981

0460 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST WATER PORT FACILITIES STUDY APPENDIX A WESTERN GULF HYDROBIOLOGICAL ZONES $ AD-A091-404/4 154P. 1973

0462 LITTLE,A.D. INC CAMBRIDGE MA GULF COAST DEEP WATER PORT FACILITIES STUDY APPENDIX B NORTH CENTRAL GULF HYDROBIOLOGICAL ZONES $ AD-A091-405/1 99P. 1973

ZOOLOGY
0269 FLORIDA UNIV GAINESVILLE DEPT OF ZOOLOGY THE DISSEMINATION AND COMBUSTION OF UNCONFINED LIQUEFIED-NATURAL-GAS CLOUDS $ AD-A089-315/6 59P. 1979

ZOOM
1050 BORST,M. QUANTIFIED PERFORMANCE TESTING OF THE ZOOM BOOM $ ENVIRONMENTAL EMERGENCY BRANCH REPORT # EE-23 OTTAWA ONTARIO 1981

1140 BURST,M. QUANTIFIED PERFORMANCE TESTING OF THE ZOOM BOOM $ ENVIRONMENTAL PROTECTION AGENCY CINCINNATI OHIO 1980

ZOOPLANKTON
0343 HEBERT,R., POULET,S.A. EFFECT OF MODIFICATION OF PARTICLE SIZE OF EMULSIONS OF VENEZUELAN CRUDE-OIL ON FEEDING SURVIVAL AND GROWTH OF MARINE ZOOPLANKTON $ MAR ENVIRON RES 4 (2) P. 121-134 1980

0690 SAMAIN,J.F., MOAL,J., COUM,A., LECOR,J.R., DANIEL,J.Y. EFFECTS OF THE AMOCO-CADIZ OIL SPILL ON ZOOPLANKTON A NEW POSSIBILITY OF ECOPHYSIOLOGICAL SURVEY $ CTR OCEANOL BRETAGNE BP F-29273 BREST FRANCE HELGOLANDER MEERESUNTERSUCH- UNGEN 33 (1-4) P. 225-235 1980

ZRV
0107 BRESLIN,M.K. PERFORMANCE TESTS OF HIGH SPEED ZRV OIL SKIMMER $ COAST GUARD WASHINGTON, D.C. AD-A088-062/5 156P. 1980

ZVEREVA,T.V
0830 ZVEREVA,T.V., YAKOVLEV,E.I. IMPROVEMENT IN METHODS OF RATING OIL PIPELINE SYSTEMS $ NEFTYANOE KHOZYAISTVO (7) P. 66-68 1980

ZWAMBORN,J.A
0894 FUGLUM,A., SMITH,R.H., BRATIANU,V., LAWRENCE,W.H.R., KOSTYLEW,G.P., DAN,M.S., ZWAMBORN,J.A., MOSSMORRIS,A.L., MATTHEWS,N.F., DUMAS,L.R. MARITIME PORTS AND SEAWAYS - DEVELOPMENTS IN THE CONSTRUCTION OF SHIPS NAVIGATIONAL AIDS WATERWAYS AND HARBORS TRAFFIC MANAGEMENT AND INSTALLATIONS WITH PARTICULAR REGARD TO RISK ANALYSIS AND SAFETY CRITERIA REGARDING TRANSPORTATION UNLOADING AND STORAGE OF LIQUEFIED-NATURAL-AND-PETROLEUM-GASES $ IN: PERMANENT INT ASSOC NAV CONGRESSES P. 125-133 1982

1317A
0394 KARELL,M. RELIABILITY AND SAFETY ANALYSIS OF ACTIVITY MEASURING SYSTEMS 1 RELIABILITY ANALYSIS OF THE STACK MONITORING SYSTEM 1317A $ AKTIEBOLAGET ATOMENERGI STUDSVIK (SWEDEN) STUDSVIK-IP-78-3 26P. 1978

2-FUEL-OIL
0423 LARSON,R.A., HUNT,L.L., BLANKENSHIP,D.W. FORMATION OF TOXIC PRODUCTS FROM A #2-FUEL-OIL BY PHOTOOXIDATION $ STROUD WATER RES CENT OF ACAD OF NAT SCI OF PHILADELPHIA AVONDALE ENVIRON SCI TECHNOL 11 (5) P. 492-496 1977

500-M-EXP-3

0960 O'NEAL,W.C., BIANCHINI,G.M., BLOCKER,K.E., HIPPLE,D.L., HOGAN,W.J. 500-M-EXP-3 SPILL TEST FACILITY FOR LIQUEFIED-GASEOUS-FUELS $ DEPARTMENT OF ENERGY WASHINGTON,D.C. 25P. 1981

6-FUEL-OIL

0361 HOLLISTER,T.A., WARD,G.S., PARRISH,P.R. ACUTE TOXICITY OF A #6-FUEL-OIL TO MARINE ORGANISMS $ EG AND G BIONOM MARINE RES LAB PENSACOLA FL BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY 24 (5) P. 656-661 1980

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